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NEWS 3 Apr 09 BRIEFLIN Reload and Implementation of a New

Subject Area

NEWS 4 Apr 09 ZDB will be removed from SIN

NEWS 5 Apr 19 US Patent Applications available in IICDB,

IIIPAT, and IIIDB

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ECAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now available in

TOXCENTRE

NEWS 8 Apr 22 Federal Research in Progress (FDRIP) now

available

NEWS 9 Jun 03 New e-mail delivery for search results now available

NEWS 10 Jun 10 MEDLINE Reload

NEWS 11 Jun 10 PCTDB has been reloaded

NEWS 12 Jul 02 FORGLI no longer contains STANDARDS file

segment

NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;

saved answer sets no longer valid

NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY

NEWS 15 Jul 30 NLTHERP1 to be removed from SIN

NEWS 16 Aug 08 CANCER11 reload

NEWS 17 Aug 08 PHARMAMarket (PHARMAM) - new on

SIN

NEWS 18 Aug 08 NLT has been re-loaded and enhanced

NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)

now available on SIN

NEWS 20 Aug 19 IIIPAT, IIIDB, and IIIFDB have been reloaded

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTRE has

been reloaded

NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced

NEWS 23 Sep 03 JAPOL has been reloaded and enhanced

NEWS 24 Sep 16 Experimental properties added to the REGISTRY

file

NEWS 25 Sep 16 Indexing added to some pre-1967 records in

CA/CAPLUS

NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and

CA

NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to

1985

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS

V6.0d.

CURRENT MACINTOSH VERSION IS V6.0a (SG) AND

V6.0a (JP).

AND CURRENT DISCOVER FILE IS DATED 05

FEBRUARY 2002

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FILE HOME ENTERED AT 15:05:39 ON 02 OCT 2002

FILE NUMBER	NAME	ENTRY	SESSION	TOTAL
1	microcell mediated chromosome transfer			
	COST IN U.S. DOLLARS			
	0.21	0.21		
	FULL ESTIMATED COST			

FILE HOME ENTERED AT 15:05:47 ON 02 OCT 2002

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1 - 8 microcell mediated chromosome transfer
11 - 482 MICROCELL MEDIATED CHROMOSOME TRANSFER

12 - 11852 ELECTROPORATION

13 - 211 AND 12

14 - dup rem 13
PROCESSING COMPLETED FOR 13
14 - 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 - dup 11 so 1-2

14 - ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
11 - Detection and interpretation of mutations using animal cell hosts to
express human genes present on a single copy of a human
chromosome
SO - PCT Int Appl., 149 pp.
COPEN: PIXND2

14 - ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.
11 - Culture of Specialized Cells Series: DNA transfer to cultured cells,
SO - David, K. [Editor]; Freshney, R. I. [Editor]. (1998) pp. xvi+296p.
Culture
of Specialized Cells Series: DNA transfer to cultured cells,
Publisher: Wiley-Liss, Inc. 605 Third Avenue, New York, New York
10158-0012 USA
ISBN: 0-471-16572-7

16 - dup 11 ab 1-2

14 - ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER 2002276207 CAPLUS
DOCUMENT NUMBER 136 289911
1111 - Detection and interpretation of mutations using
animal
cell hosts to express human genes present on a single
copy of a human chromosome
INVENTOR(S) Beaudet, Arthur; Bodamer, Olaf; Killary, Ann;
Lowell, Mercedes

Journal code: 7906255 ISSN: 1524-456

110 ANSWER 4 OF 23 CAPTUS COPYRIGHT 2002 ACS

11. Studies on the interaction between actinophage phi C31 and Streptomyces

manchangers

SO: Huhe Dayue Xuebao, Ziran Kexueban (2001), 23(1), 82-86

CODEN: HDSZEM ISSN: 1000-2178

DUPLICATE 4

110 ANSWER 5 OF 23 MEDIUM

11. Circular SV40 vectors containing s for mammalian origin sequences are

maintained under selection as HeLa episomes

SO: JOURNAL OF CELLULAR BIOCHEMISTRY, (2000 Jan) 76(4):

674-85

Journal code: 820576X ISSN: 0730-232Z

110 ANSWER 6 OF 23 CAPTUS COPYRIGHT 2002 ACS

11. Transfection of muscle cell's using low voltage electrical pulses

SO: PCT Int. Appl. 97 pp.

CODEN: PIXND2

110 ANSWER 7 OF 23 CAPTUS COPYRIGHT 2002 ACS

11. Transfection of cells of multicellular organisms in vivo using low-voltage electrical pulses

SO: PCT Int. Appl. 74 pp

CODEN: PIXND2

110 ANSWER 8 OF 23 MEDLINE

11. Biosynthesis and intracellular targeting of the CTN3 protein defective in Batten disease.

SO: HUMAN MOLECULAR GENETICS, (1998 Jan) 7 (1):85-90

Journal code: 9208958 ISSN: 0964-0906

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 9 OF 23 MEDLINE

11. Mutation of a conserved cysteine in the X-linked cone opsin causes color

vision deficiencies by disrupting protein folding and stability.

SO: INVESTIGATIVE OPHTHALMOLOGY AND VISUAL

SCIENCE, (1997 May) 38 (6):1074-81

Journal code: 7703701 ISSN: 0146-0404

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 10 OF 23 MEDLINE

11. Biochemical and genetic characterization of multiple splice variants of the Pt3 ligand.

SO: BLOOD, (1996 Nov 1) 88 (9):3571-82

Journal code: 7603509 ISSN: 0006-4971

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 11 OF 23 MEDLINE

11. A new and efficient method for gene transfer into mouse ES cells using

metaphase chromosomes by electroporation.

SO: BIOCHEMICAL, BIOTECHNOLOGY, AND BIOCHEMISTRY, (1996 Nov) 16(11):1879-81

Journal code: 9205717 ISSN: 0916-8451

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 12 OF 23 MEDLINE

11. Molecular cloning and characterization of murine interleukin-11.

SO: EXPERIMENTAL BIOLOGY, (1996 Oct) 24 (12):1369-76

Journal code: 0402312 ISSN: 0161-472X

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 13 OF 23 MEDLINE

11. Assembly and localization of the U1-specific snRNP C protein in

amphibian oocytes

SO: JOURNAL OF CELL BIOLOGY, (1992 Dec) 119 (5):1037-46

Journal code: 0375356 ISSN: 0021-9525

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 14 OF 23 MEDLINE

11. Molecular complementation of a collagen mutation in mammalian cells using

yeast artificial chromosomes

SO: EMBO JOURNAL, (1992 Feb) 11 (2):417-22

Journal code: 3208664 ISSN: 0261-4189

110 ANSWER 15 OF 23 MEDLINE

11. Characterization of an insulin receptor mutant lacking the subunit

processing site

SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 May 25) 265

(15):8463-9

Journal code: 2958121E ISSN: 0021-9258

110 ANSWER 16 OF 23 MEDLINE

11. Autonomously replicating of a DNA fragment containing the

chromosomal

replicating origin of the human c-myc gene

SO: NUCLEIC ACIDS RESEARCH, (1990 Mar 11) 18 (5):1233-42

Journal code: 0411011 ISSN: 0305-1048

Journal code: 2958121E ISSN: 0021-9258

110 ANSWER 17 OF 23 MEDLINE

11. Analysis of a soluble mutant des-methionine interleukin-2 receptor

alpha

chain (lac protein) produced by transfected mammalian cells.

SO: EUROPEAN JOURNAL OF BIOCHEMISTRY, (1990 May 20)

189 (3):657-65

Journal code: 0375356 ISSN: 0014-2956

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 18 OF 23 MEDLINE

11. Analysis of the trans-generations of ML4 transfected cell lines

reveals that ML4 activation is accompanied by an interstitial

insertion

SO: HUMAN GENETICS, (1990 Feb) 84 (3):274-8

Journal code: 7613873 ISSN: 0340-6717

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 19 OF 23 MEDLINE

11. Intracellular transport of rat serum albumin is altered by a

genetically

engineered deletion of the propeptide.

SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 Dec 15) 264

(35):20843-6

Journal code: 2958121R ISSN: 0021-9258

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 20 OF 23 MEDLINE

11. Selective secretion of alternatively spliced fibronectin variants.

SO: JOURNAL OF CELL BIOLOGY, (1989 Dec) 109 (6 Pt 2):3445-53

Journal code: 0375356 ISSN: 0021-9255

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 21 OF 23 MEDLINE

11. A frameshift mutation results in a truncated alpha 1-antitrypsin that

is

retained within the rough endoplasmic reticulum.

SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1988 May 25) 263

(15):7320-5

Journal code: 2958121R ISSN: 0021-9258

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 22 OF 23 MEDLINE

11. An amino-terminal deletion mutation of pseudorabies virus

glycoprotein

gII affects protein localization and RNA accumulation

SO: JOURNAL OF VIROLOGY, (1988 Oct) 62 (10):3565-73

Journal code: 0375356 ISSN: 0022-538X

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 23 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL

ABSTRACTS INC.

11. AN UNLINKED GENE AFFECTING MOUSE CELL DNA

SYNTHESIS ALSO AFFECTS PRODUCTION OF INTEGRATED LINEAR AND SUPER

COILED DNA OF MURINE LEUKEMIA

CELLS

SO: MOLECULAR BIOLOGY, (1984) 4 (1): 151-159

CODEN: MCBBD4 ISSN: 0270-7306

Journal code: 0375356 ISSN: 0021-9258

Journal code: 7613873 ISSN: 0340-6717

110 ANSWER 14 OF 23 MEDLINE DUPLICATE 7

ACCESSION NUMBER: 92164627 MEDLINE

DOCUMENT NUMBER: 92164627 PubMed ID: 1537326

TITLE: Molecular complementation of a collagen mutation in mammalian cells using yeast artificial **chromosomes**

AUTHOR: Stratton, W.M.; Jaenisch, R.
CORPORATE SOURCE: Whitehead Institute for Biomedical Research, Massachussets

INSTITUTE: Institute of Technology, Cambridge 02142.
CONTRACT NUMBER: 5432 GM13756-02 (NCI/MS)
SR: 5 CA4739-05, SC1

SOURCE: EMBOD JOURNAL, (1992 Feb) 11 (2) 417-22.
Journal code: 8208604 ISSN: 0261-4189.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal Article, JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199203

ENTRY DATE: Entered SIN: 19920417

Last Updated on SIN: 19930206

Entered Medline: 19920331

AB: The cloning of large contiguous segments of mammalian DNA in *Saccharomyces cerevisiae* has become possible with the advent of Yeast Artificial **chromosomes** (YACs). We are interested in extending the technique of genetic complementation analysis to the molecular level through the introduction of YACs into mammalian cells and the mammalian germ line. We report the successful introduction of homogeneous DNA derived from a 150-kb YAC spanning the murine Col1a1 locus into murine fibroblasts carrying a mutation at this locus. The YAC DNA was fractionated by **pulse** field gel electrophoresis, condensed with polyamines, and introduced into mutant fibroblasts via DNA-lipid nanocelles. The DNA was integrated as a stable intact unit in 10% of the **transfected** clones conferring collagen RNA expression to the mutant cells.

110 ANSWER 14 OF 23 MEDLINE DUPLICATE 5

ACCESSION NUMBER: 97141609 MEDLINE

DOCUMENT NUMBER: 97141609 PubMed ID: 8987867

TITLE: A new and efficient method for gene transfer into mouse EM3A cells using metaphase **chromosomes** by electroporation.

AUTHOR: Obse, M.; Itochida, K.; Tomita, H.; Taketo, A.; Kimoto, H.; Kiso, S.; H.

CORPORATE SOURCE: Department of Applied Physics and Chemistry, Faculty of Engineering, Fukui University of Technology, Japan

SOURCE: BIOSCIENCE, BIOTECHNOLOGY, AND

BIOCHEMISTRY, (1996 Nov) 60

(11) 1879-81.

Journal code: 9205717 ISSN: 0916-8451

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal Article, JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Biotechnology

ENTRY MONTH: 199702

ENTRY DATE: Entered SIN: 19970306

Last Updated on SIN: 19970306

Entered Medline: 19970224

AB: We introduced **chromosome**-mediated genes into mouse thymidine kinase-deficient EM3A (EM3A-⁻) cells, by electroporation. The effects of some parameters on the electric shock-mediated **transfection** of EM3A-⁻ cells were investigated. Gene transfer of mouse L929 metaphase DNA into EM3A-⁻ resulted in a maximum frequency

of $13.0 \times 10^{-2} \times 10^{-5}$ at a cell density of 2.0×10^8 ml and **chromosome** dosage of 5.0×10^7 cell equivalents/ml in a buffer containing 0.25 M mannitol, 0.5 mM MgCl₂, 0.1 mM CaCl₂, and 1 mM Tris-HCl.

110 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199953426 CAPLUS

DOCUMENT NUMBER: 130106017

TITLE: **Transfection** of cells of multicellular

organisms *in vivo* using low-voltage electrical

pulses

INVENTOR(S): Bureau, Michel; Mir, Luis; Sherman, Daniel

PATENT ASSIGNEE(S): Rhone-Poulenc Rorer S.A., Fr., Institut Gustave

Roussy; Centre National De La Recherche Scientifique

SOURCE: Pt. I Int. Appl., 74 pp.

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9901157 A1 19990114 WO 1998-FR1399 19980630

W, AT, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DE, GE, GW,

HU, ID, IL, IS, JP, KR, LK, FR, PT, LV, MG, ME, MN, MX, NO, NZ,

PL, RO, SG, SI, SE, SU, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY,

KG, EZ, MD, RU, TJ, TM, RW, GE, GM, EL, US, MW, SD, SZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FR, GB, GR, IE, H, LU, MC, NL, PT, SE, BE, BI, CF, CG,

CL, CM, GA, GN, ME, MR, NL, SN, TD, TG

EP 2765241 A1 19981231 EP 1997-8232 19970630

EP 2765241 B1 20010504

AU 9584446 A1 19990125 AU 1998-84446 19980630

EP 991425 A1 20000412 EP 1998-935066 19980630

R, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LU, NL, SE,

PT, SI, FI, BR, 9-10372 A 20000905 BR 1998-10372 19980630

JP 2002057984 T2 20020312 JP 1999-506529 19980630

NO 9906541 A 20000217 NO 1999-0541 19991229

US 2002012914 A1 20020131 US 2000-446690 20000202

PRIORITY APPN INFO: FR 1997-8232 A 19970630

US 1997-67487 P 19971201

WO 1998-FR1399 W 19980630

AB: Nucleic acids are introduced into cells of multicellular organisms

in vivo by using elec. **pulses** of 1-600 V/cm. The method was demonstrated using a no. of different tissues (normal and cancerous).

Effects of variation of voltage, **pulse** frequency, duration, etc.

on **transfection** were studied.

REFERENCE COUNT: 5 THERE ARE 5 CITED

REFERENCES AVAILABLE FOR THIS

RECORD ALL CITED REFERENCES AVAILABLE IN THE

REFORMAT

110 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199958892 CAPLUS

DOCUMENT NUMBER: 130106020

TITLE: **Transfection** of muscle cells using

114 - **s-micelle or lipid or liposome**
 115 - **S-11522 MICELLE OR LIPID OR LIPOSOME**

116 - **s-114 and 115**
 116 - **13114 AND 115**

- dup item 116
 PROCESSING COMPLETED FOR 116
 117 - **o-DUP116 (4 DUPLICATES REMOVED)**

- also 119

117 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
 11 Compositions and methods for the treatment of diseases related to
 faulty cholesterol regulation

SO: PCT Int. Appl. 75 pp.
 CODEN: PIINX2

117 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
 11 Detection and interpretation of mutations using animal cell hosts to
 express human genes present on a single copy of a human

chromosome
 SO: PCT Int. Appl. 149 pp.
 CODEN: PIINX2

117 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
 11 Methods for binding an exogenous zinc finger protein to cellular
 chromatin

SO: PCT Int. Appl. 49 pp.
 CODEN: PIINX2

117 ANSWER 4 OF 9 MEDLINE DUPLICATE
 11 A flow cytometry technique for measuring **chromosome**-mediated
 gene transfer

SO: CYTOMETRY, (2001 Jun 1) 44 (2) 100-5.
 Journal code: 8102328, ISSN: 0196-4763.

117 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
 11 EACS-assisted methods for introducing individual **chromosomes**
 into cells

SO: PCT Int. Appl. 24 pp.
 CODEN: PIINX2

117 ANSWER 6 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL
 ABSTRACTS INC.

11 Conversion of normal beta-globin to sickle beta-globin by small
 fragment homologous replacement
 SO: Blood, (November 16, 2000) Vol. 96, No. 11 Part 2, pp. 379b.
 print.
 Meeting Info: 42nd Annual Meeting of the American Society of
 Hematology
 San Francisco, California, USA December 01-05, 2000 American
 Society of
 Hematology
 ISSN: 0006-4971

117 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
 11 methods for prep. mammalian artificial **chromosomes** (MACs)

SO: PCT Int. Appl. 248 pp.
 CODEN: PIINX2

117 ANSWER 8 OF 9 MEDLINE
 11 A system for generalized mutagenesis of *Haemophilus ducreyi*

SO: INFECTION AND IMMUNITY, (1995 Aug) 63 (8) 2976-82
 Journal code: 0246127, ISSN: 0019-9567.

117 ANSWER 9 OF 9 MEDLINE DUPLICATE
 11 Molecular complementation of a collagen mutation in mammalian
 cells, using yeast artificial **chromosomes**

SO: EMBO JOURNAL, (1992 Feb) 11 (2) 417-22
 Journal code: 8208664, ISSN: 0261-4189

duibab 9.8.7.2

117 ANSWER 9 OF 9 MEDLINE
 ACCESSION NUMBER: 92164627 MEDLINE
 DOCUMENT NUMBER: 92164627 PubMed ID: 157326
 TITLE: Molecular complementation of a collagen mutation in
 mammalian cells using yeast artificial **chromosomes**

AUTHOR: Strauss W M; Jentsch R
 CORPORATE SOURCE: Whitehead Institute for Biomedical
 Research, Massachusetts

Institute of Technology, Cambridge 02142
 CONTRACT NUMBER: 5132 GM13756-02 (NIGMS)
 5 R35 CA44230-05 (NCI)
 HG000198-01 (NIGRI)

SOURCE: EMBO JOURNAL, (1992 Feb) 11 (2) 417-22
 Journal code: 8208664 ISSN: 0261-4189.

PUB. COUNTRY: ENGLAND, United Kingdom
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199203

ENTRY DATE: Entered SIN 19980206
 Last Updated on SIN 19980206

Entered Medline 199203-1
 AB: The cloning of large contiguous segments of mammalian DNA in
Saccharomyces cerevisiae has become possible with the advent of Yeast Artificial
chromosomes (YACs). We are interested in extending the technique
 of genetic complementation analysis to the molecular level through
 the introduction of YACs into mammalian cells and the mammalian
 germline. We

report the successful introduction of homogeneous DNA derived
 from a 150-kb YAC spanning the murine Colla1 locus into murine fibroblasts
 carrying a mutation at this locus. The YAC DNA was fractionated by **pulse**
 field electrophoresis, condensed with polyamines, and introduced
 into mutant fibroblasts via **DNA-lipid micelles**. The DNA was
 integrated as a stable intact unit in 10% of the **transfected**
 clones conferring collagen RNA expression to the mutant cells.

117 ANSWER 8 OF 9 MEDLINE
 ACCESSION NUMBER: 95347810 MEDLINE
 DOCUMENT NUMBER: 95347810 PubMed ID: 7622219
 TITLE: A system for generalized mutagenesis of *Haemophilus*
ducreyi

AUTHOR: Stevens M K; Cope L D; Radolt J D; Hansen E J
 CORPORATE SOURCE: Department of Microbiology, University of
 Texas
 Southwestern Medical Center, Dallas 75335-9048, USA

CONTRACT NUMBER: AI20211 (NIAID)
 CA09082-19 (NCI)
 F32-AI08848 (NIAID)

SOURCE: INFECTION AND IMMUNITY, (1995 Aug) 63 (8)
 2976-82 Journal code: 0246127, ISSN: 0019-9567.

PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199508

ENTRY DATE: Entered SIN 19950911
 Last Updated on SIN 19960129

Entered Medline 19950825

AB: The lack of a generalized mutagenesis system for *Haemophilus*
ducreyi has

hampered efforts to identify virulence factors expressed by this

sexually transmitted pathogen. To address this issue, the transposable element *In1545-delta 3*, which encodes resistance to kanamycin, was evaluated for

its ability to insert randomly into the *H. ducreyi* chromosome and produce stable, isogenic mutants. **Electroporation** of *H. ducreyi* with a construct of plasmid pMS1 carrying *In1545-delta 3* resulted

in the production of 104 kanamycin-resistant transformants.

Southern blot analysis of a number of these transformants indicated that insertion

of the transposon into the **chromosome** occurred at a number of

different sites. This pMS1-based transposon-delivery system was

used to produce an *H. ducreyi* mutant that expressed an altered

lipooligosaccharide.

Passage of this mutant *in vitro* in the presence or absence of *LOS* did not affect the stability of the transposon insertion. To confirm that the observed mutant phenotype was the result of the

transposon insertion, a chromosomal fragment containing *In1545-delta 3* was

cloned from this *H. ducreyi* LOS mutant. **Electroporation** of the

wild-type *H. ducreyi* strain with this DNA fragment yielded

numerous kanamycin-resistant transformants, the majority of which had the

same

altered LOS phenotype as the original mutant. Southern blot analysis confirmed the occurrence of proper allelic exchange in the LOS-deficient

transformants obtained in this back cross experiment. The ability of *In1545-delta 3* to produce insertion mutations in *H. ducreyi* should facilitate genetic analysis of this pathogen.

117. ANSWER 7 OF 9. CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997118636 CAPLUS

DOCUMENT NUMBER: 2819355

DOCUMENT TYPE: methods for prep_g mammalian artificial **chromosomes** (MACs)

INVENTOR(S): Hadaczky, Gyula; Szalay, Aladar A.; American

Gene Therap., Inc., Biological Research Center of the Hungarian Academy of Sciences; Eoma Linda

University

SOURCE: PCT Int. Appl., 248 pp

CODEN: PXXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION

PATENT NO. FILED DATE APPLICATION NO. DATE

WO 9740183 A2 1997-6-0 WO 1997-185911 19970410
W- AL, AM, AE, AZ, BA, BB, BG, BY, CA, CH, CN, CU,
CZ, DE, DK,
EE, ES, EL, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
LK, LT, ES, LI, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
PT, RO, RU,
SD, SE, SG, SK, SI, TM, TR, TT, UA, UG, US, TZ, VN, YU, ZA,
AM, AZ
BY, KG, KZ, MD, RU, TJ, TM
RW, AL, BL, BE, BG, CG, CH, CL, CM, DE, DK, ES, H, FR,
GA, GB, GE,
EE, HU, MC, ME, MR, NL, NE, PT, SE, SN, TD, TG

PRIORITY APPN. INFO. US 1996-629822 19960410
US 1996-682080 19960715
US 1996-695191 19960807

AB: Methods for prep_g cell lines that contain artificial **chromosomes**, methods for prep_g of artificial **chromosomes**, methods for purif_g of artificial **chromosomes**, methods for targeted insertion of heterologous DNA into artificial **chromosomes**, and methods for delivery of the **chromosomes** to selected cells and

tissues are provided. Also provided are cell lines for use in the methods, and cell lines and **chromosomes** produced by the methods. In particular, satellite artificial **chromosomes** (SACs) that, except for inserted heterologous DNA, are substantially composed of heterochromatin, are provided. Methods for use of the artificial **chromosomes**, including for gene therapy, produc_g of gene products and produc_g of transgenic plants and animals are also provided.

117. ANSWER 8 OF 9. CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000-201963 CAPLUS

DOCUMENT NUMBER: 13319076

DOCUMENT TYPE: FACS assisted methods for introducing individual

chromosomes into cells

INVENTOR(S): Nolan, Edward M.; Rabbissay, Dicmar P.; Hofmann, Gunter A.

PATENT ASSIGNEE: Genetronics, Inc., USA

SOURCE: PCT Int. Appl., 24 pp

CODEN: PXXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO. FILED DATE APPLICATION NO. DATE

WO 2000-034436 A2 20000615 WO 1999-US28715
19991203

WO 2000-034436 A3 20010920
W- AL, AM, AE, AZ, BA, BB, BG, BY, CA, CH,
CN, CR, CU,
CZ, DE, DK, DM, EL, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL
IN, IS, JP, KF, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV,
MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PL, RO, RU, SD,
SE, SG, SI,
SK, SE, SI, TM, TR, TT, TZ, VA, UG, US, UZ, VN, YU, ZA,
ZW, AM,
AZ, BY, EG, KZ, MD, RU, TJ, TM
RW, GE, GM, KE, LS, MW, SD, SE, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE,
DK, ES, FI, FR, GB, GR, JP, IT, LU, MC, NL, PT, SE, BE, BI,
CL,
CG, CL, CM, GA, GN, GW, ME, MP, NL, SN, TD, TG
AU 2000019330 A1 20000626 AU 2000-19330 19991203
US 2002019052 A1 20020214 US 2001-974882 20011010
PRIORITY APPN. INFO. US 1998-110951 P 19981204
WO 1999-US28715 W 19991203
US 1999-453610 B1 19991204

AB: The present invention provides methods and app. for the delivery of at least one **chromosome** into a cell. Invention methods and app. employ FACS or MACS technol. for rapidly processing cells and for confirming the introduction of **chromosome(s)** into the cell. The introduction of the **chromosome(s)** into the cell is mediated by one or more of a laser, a linear accelerator or elec. induced fusion of a cell and encapsulated **chromosome(s)**. Invention methods provide for the rapid and reliable processing assoc. with FACS and MACS technol.

To process thousands of cells a minute, thereby enabling large scale gene transfer.

117. ANSWER 2 OF 9. CAPLUS. COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002-276207 CAPLUS

DOCUMENT NUMBER: 136289911

DOCUMENT TYPE: Detection and interpretation of mutations using animal

cell hosts to express human genes present on a single copy of a human **chromosome**

INVENTOR(S): Beaudet, Arthur; Bodamer, Olaf; Killary, Ann; Lovell, Mercedes

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
PCT Int. Appl. 149 pp
SOURCE: CODEN: P1NND2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DAU
WO 2002029107	A2	20020411	WO 2004/820965	
20011002				
WO 2002029107	A2	20020411	WO 2004/820965	
20011002				
W, AL, AR, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, ES, EL, GB, GD, GE, GH, GM, HR, HU, ID, IE, IN, IS, JP, KE, KG, KP, KR, KZ, LC, UK, LR, MA, ME, MU, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TT, TR, TT, TZ, UA, UG, VN, YU, ZA, ZW, AM, AZ, BY, KG, EZ, MD, RU, TT, TR, RW, GE, GM, KE, US, MW, MZ, SD, SE, SZ, TZ, UG, ZW, AL, BE, CH, CY, DE, DK, ES, FR, GB, GR, H, HU, MC, NL, PT, SE, TR, BE, BI, CE, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NL, SN, TD, TG, US 2002137067 A1 20020926 US 2004/969861 20041002 PRIORITY/APPN. INFO.: US 2000-2-7471P P 20001002 AB: The present invention relates to a method for detection and interpretation				

of loss-of-function or gain-of-function mutations for test genes of interest. The genes of interest include those assoc'd. with inherited genetic disorders. The method involves testing for gene function by transferring single copies of individual human **chromosomes** into a suitable host cell. Human cells are obtained from peripheral blood. Transfer is preferable by micro-cell-mediated **chromosome** transfer. Transfer is screened for anal. of expression of a marker gene. gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins such as ICAM-1 that can be easily assayed or used for fluorescence activated cell sorting. The method is demonstrated by detection of a mutation in the human ED1 receptor gene on **chromosome** 19 using CHO cells as a host.

ed his

(THE P1NND2 ENTERED AT 15:05:39 ON 02 OCT 2002)

(THE "MEDIEU" BOSIS, CAPLUS ENTERED AT 15:05:47 ON
02 OCT 2002)

11 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER
12 1 852 S ELECTROPORATION
13 2 841 AND 12
14 2 DUP REM 13 (0 DUPLICATES REMOVED)
15 173 S ELECTROTRANSFECT
16 26 S TRANSFECT AND ELECTRIC
17 2095 S TRANSFECT AND PULSE
18 552069 S CHROMOSOME
19 41 S 17 AND 18
140 23 DUP REM 19 (0 DUPLICATES REMOVED)
111 11745 S 12 OR 15 OR 17
112 2 8411 AND 13
143 0 8412 NOT 13

114 773 S 18 AND 113
115 83182 S MICROCELL OR LIPOSOME
116 1 8114 AND 115
117 9 DUP REM 16 (4 DUPLICATES REMOVED)

-S11815
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - AND OPERATOR ASSUMED T35(S1)51
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - AND OPERATOR ASSUMED T36(S1)52
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - AND OPERATOR ASSUMED T37(S1)53
118 825 11183 115

-S12 OR 15
119 1192812 OR 15

-S115S119
120 477 115S119

-S12 OR 15
PROCESSING COMPLETED FOR 120
121 280 DUP REM 120 (197 DUPLICATES REMOVED)

-S121 AND 122
122 2737 LARGE DNA

-S121 AND 122
123 6121 AND 122

-S121 NOT PY-1999
124 18412; NOT PY-1999

-S121 AND 122

124 ANSWER 160 OF 184 CAPLUS COPYRIGHT 2002 ACS
11 Reversible electrical breakdown of bilayer lipid membranes with a ramped voltage and the quantitative analysis based on a transient aqueous pore model
SO Memoirs of the Faculty of Engineering, Kyushu University (1943-1999) (1994), 54(4), 263-77
CODEN: MFKSAS, ISSN: 0923-6160

124 ANSWER 161 OF 184 CAPLUS COPYRIGHT 2002 ACS
11 Commercial **liposomes** and **electroporation** can deliver soluble antigen for class I presentation in CTL generation
SO Cytotoxic Cells (1993), 49-6. Editors: Sitkovsky, Michael V.; Henkart, Pierre A. Publisher: Birkhauser, Boston, Mass.
CODEN: 608ZAF

124 ANSWER 162 OF 184 CAPLUS COPYRIGHT 2002 ACS
11 Antisense oligonucleotides which combat aberrant splicing and methods for their use
SO PCT Int. Appl. 58 pp
CODEN: P1NND2

124 ANSWER 163 OF 184 CAPLUS COPYRIGHT 2002 ACS
11 **Electroporation** phenomena: Electro-optics of plasmid DNA and of lipid bilayer vesicles
SO Colloid Mol. Electro-Opt. Proc. Int. Electro-Opt. Symp., 6th (1992), Meeting Date 1991, 197-206. Editors: Jennings, Barry R.; Stoylov, Stoil
P. Publisher: Inst. Phys., Bristol, UK
CODEN: 601UAM

124 ANSWER 164 OF 184 CAPLUS COPYRIGHT 2002 ACS
11 Physical methods for plant gene transfer
SO Biotechnol. Crop Improv., Asia (1992), 213-33. Editors: Moss, J.

P Publisher: Int. Crops Res. Inst. Semiarid Trop., Patancheru, India
CODEN: 59VJAM

124 ANSWER 165 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Membrane electroporation toward a molecular mechanism
SO Electr. Magn. Biol. Med., Rev. Res. Pap. World Congr., 1st (1993), 109-11
Publ. by San Francisco Press
CODEN: 60FWS

124 ANSWER 166 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Transfection of plant protoplasts with tobacco mosaic virus RNA by
using **electroporation**, PLG and cationic **liposome**-mediated
methods
SO Shengwu Huaxue Yu Shengwu Wuji Xuebao (1994), 26(1), 7-13
CODEN: SHWPAU; ISSN: 0582-9879

124 ANSWER 167 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Gene transfer to leaf protoplasts by lipofection and electroporation
SO Journal of Liposomal Research (1993), 3(2), 707-16
CODEN: JLERI7; ISSN: 0898-2104

124 ANSWER 168 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Anticancer enzymes
SO Biochemical Education (1993), 21(3), 139-41
CODEN: BIEDXX; ISSN: 0007-4412

124 ANSWER 169 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Expression of microbial genes in plants
SO Microb. Gene Technol., Proc. Natl. Symp., (1991), Meeting Date
1990, 173-9
Editor(s): Polasa, H. Publisher: South Asian Publishers, New Delhi, India
CODEN: 59JLME

124 ANSWER 170 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Effects of electroporation conditions on transdermal delivery
SO Proc. Int. Symp. Controlled Release Bioact. Mater., 20th (1993), 95-6
Editor(s): Roseman, Theodore J.; Peppas, Nicholas A.; Gabenick, Henry F.
Publisher: Controlled Release Soc., Deerfield, IL
CODEN: 59JOM

124 ANSWER 171 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Plant genetic transformation
SO Plant Biotechnol. (1992), 151-82, Editor(s): Fowler, Michael W.; Warren, Granar S.; Moi-Young, Munay. Publisher: Pergamon, Oxford, UK
CODEN: 58BXAP

124 ANSWER 172 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Exact solution of a stochastic model of electroporation
SO Charge Field Eff. Biosyst. -2, Int. Symp., 3rd (1992), Meeting Date
1992, 27, 84, Editor(s): Allen, Milton J. Publisher: Birkhauser, Boston, Mass.
CODEN: 57VAAA

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lipid bilayers
SO Progress in Colloid & Polymer Science (1991), 84, Trends Colloid Interface Sci., 5, 189-99.
CODEN: PCPSD7; ISSN: 0340-255X

124 ANSWER 174 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Introduction of DNA and proteins into cells
SO Saishin Igaku (1991), 46(Suppl.), 857-68
CODEN: SAIGAK; ISSN: 0370-8241

124 ANSWER 175 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Electroporation - a unified, quantitative theory of reversible
electrical breakdown and mechanical rupture in artificial planar bilayer
membranes
SO Bioelectrochem. Bioenerg. (1991), 25(2), 163-82
CODEN: BIEBEP; ISSN: 0302-4598

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS
II **Electroporation** of **lipid** vesicles by inner electric
fields
SO Charge Field Eff. Biosyst. -2, Int. Symp., (1992), 233-9
Editor(s): Allen, Milton J.; Cleary, Stephen J.; Hawking, Fred
M
Publisher: Plenum, New York, NY
CODEN: 56VZAF

124 ANSWER 177 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Establishment of conditions for the transformation of nonaxenic
Dictyostelium strains
SO Dev. Genet. (N. Y.) (1990), 11(5-6), 291-5
CODEN: DGEND9; ISSN: 0192-253X

124 ANSWER 178 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Methods for introducing DNA into mammalian cells
SO Methods Enzymol. (1990), 185(Gene Expression Technol.), 527-37
CODEN: MDENEM; ISSN: 0076-6879

124 ANSWER 179 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Introduction of foreign DNA into walled plant cells via liposomes
injected
into the vacuole: a preliminary study
SO Physiol. Plant. (1990), 79(1), 184-9
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 180 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Plant transformation by microinjection techniques
SO Physiol. Plant. (1990), 79(1), 213-17
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 181 OF 184 CAPLUS COPYRIGHT 2002 ACS
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SO Biochim. Biophys. Acta (1990), 1025(1), 10-14
CODEN: BBACAO; ISSN: 0006-3002

124 ANSWER 182 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Current topics on gene transfer
SO Seifagaku (1988), 60(12), 1331-6
CODEN: SEIKAQ; ISSN: 0037-1017

124 ANSWER 183 OF 184 CAPLUS COPYRIGHT 2002 ACS
II New methods of transfection of mammalian cells (a minireview)
SO Mol. Biol. (Moscow) (1988), 22(6), 1445-50
CODEN: MOBIBO; ISSN: 0026-8984

124 ANSWER 184 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Gene transfection and lymphocyte immortalization: a new approach
to human
monoclonal antibody production
SO Adv. Drug Delivery Rev. (1988), 2(2), 207-28
CODEN: ADDREP

124 ANSWER 185 OF 184 CAPLUS COPYRIGHT 2002 ACS
II D names of **Electroporation** of **Synthetic Liposomes**
Studied Using a Pore-Mediated Reaction, Ag⁺ + Br⁻ /wdarw. AgBr
SO Journal of Physical Chemistry B (1998), 102(46), 9319-9322
CODEN: JPCBDE; ISSN: 1089-5647

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 II. Electroporation of Unilamellar Vesicles Studied by Using a Potassium-Mediated Electron Transfer Reaction
 SO. Langmuir (1998), 14(20), 5802-5805
 CODEN: LANGDS; ISSN: 0743-7463

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 II. Time response of a fluctuating lipid bilayer
 SO. Thin Solid Films (1998), 327-329, 796-799
 CODEN: THSDFL; ISSN: 0040-6090

124. ANSWER 125 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Topical delivery of antisense oligonucleotide in the skin
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 CODEN: EELTEI; ISSN: 0295-5075

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 SO. Blood (1998), 91(12), 4738-4746
 CODEN: BLOODA; ISSN: 0006-4971

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124. ANSWER 129 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. Kinetics of the electroporative deformation of lipid vesicles and biological cells in an electric field
 SO. Berichte der Bunsen-Gesellschaft (1998), 102(4), 670-675
 CODEN: BBPCAN; ISSN: 0940-483X

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 II. Transdermal delivery of macromolecules: recent advances by modification of skin's barrier properties
 SO. ACS Symposium Series (1997), 675 Therapeutic Protein and Peptide Formulation and Delivery, 124-153
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 SO. Journal of Biological Chemistry (1997), 272(41), 25524-25530
 CODEN: JBCHEA; ISSN: 0021-9258

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 SO. Biol. Membr. (1997), 14(3), 299-309
 CODEN: BIMEF9; ISSN: 0233-4755

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 II. Direct transfection of poly(metacrylic acid)-generated DNA fragments into mammalian cells employing ethidium bromide indicator and ultrafiltration
 SO. Analytical Biochemistry (1997), 248(1), 190-193
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 SO. Current Opinion in Colloid & Interface Science (1996), 1(6), 790-799
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 SO. Advances in Chemistry Series (1995), 250(1) Electromagnetic Fields), 301-16
 CODEN: ADCSA1; ISSN: 0065-2393

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 SO. Shengwu Huaxue Yu Shengwu Wuji Xuebao (1995), 27(3), 247-53
 CODEN: SHWPAT; ISSN: 0582-9879

124. ANSWER 139 OF 184. CAPLUS. COPYRIGHT 2002 ACS
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 SO. PCT Int. Appl. 44 pp.
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124. ANSWER 140 OF 184. CAPLUS. COPYRIGHT 2002 ACS
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 II. Insertion of glycoporphin A, a transmembranous protein, in lipid bilayers
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 BIOLOGICAL ABSTRACTS INC.
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 SO. Science (Washington, D.C.), 1883-4, (1987) 236 (4806), 1259-1262
 CODEN: SCIAS; ISSN: 0366-8075

124. ANSWER 143 OF 184. CAPLUS. COPYRIGHT 2002 ACS
 II. The study of plant genetic transformation
 SO. Eunice Nanyang (Singapore) (1999), 47(3-4), 112-119
 CODEN: KHNYYB; ISSN: 0452-2230

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 II. Non-viral methods for gene transfer
 SO. Blood Cell Biochemistry (1999), 8(Hematopoiesis and Gene Therapy), 12-154
 CODEN: BCBEEF; ISSN: 1078-0491

124 ANSWER 123 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Antisense oligonucleotides: strategies for delivery
SO Pharmaceutical Science & Technology Today (1998), 16(3), 57-
386 CODEN PSHTD8, ISSN 1461-547

124 ANSWER 124 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Cholesterol-induced variations in fluctuations of the pores in bilayer lipid membrane
SO Cellular & Molecular Biology Letters (1999), 4(4), 567-582
CODEN CMBLE, ISSN 1423-8153

124 ANSWER 125 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Creation of transdermal pathways for macromolecule transport by
electroporation and a low toxicity, pathway-enlarging molecule
SO Bioelectrochemistry and Bioenergetics (1999), 49(1), 11-20
CODEN BEBEBP, ISSN: 0302-4598

124 ANSWER 126 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Status of sperm-mediated delivery methods for gene transfer
SO Transgenic Animals in Agriculture, [Papers presented at a Conference],
Tahoe City, Calif., Aug., 1997 (1999), Meeting Date 1997, 87-95
Editors: Murra, James D, Publisher: CABI Publishing,
Wallingford, UK
CODEN 68ABAX

124 ANSWER 127 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Expression of heterologous integrin genes
SO Methods in Molecular Biology (Totowa, New Jersey) (1999),
129[Integrin
Protocols], 125-134
CODEN: MMBIID, ISSN: 1064-3745

124 ANSWER 128 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Enhancement of transdermal iontophoretic delivery of a liposomal
formulation of colchicine by electroporation
SO Drug Delivery (1999), 6(2), 111-115
CODEN: DRDDEB, ISSN: 1071-7544

124 ANSWER 129 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Study of conductance changes of bilayer lipid membrane induced by
electric field
SO Biologisches Membran (1999), 16(1), 95-102
CODEN: BIMM19, ISSN: 0233-4755

124 ANSWER 130 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Membrane electroporation and electromechanical deformation of
vesicles and
cells
SO Faraday Discussions (1999), Volume Date 1998, 111[Molecular
Interactions
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CODEN: FDSE6, ISSN: 0301-7249

124 ANSWER 131 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Gene transfer into retinoblastoma cells
SO Biotechniques (1999), 26(3), 444-446
CODEN: BTEQDQ, ISSN: 0736-6205

124 ANSWER 132 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Characterization of a dextran-based bifunctional calcium indicator
immobilized in cells by the enzymatic addition of isoprenoid lipids
SO Cell Calcium (1999), 25(1), 1-7
CODEN: CECADV, ISSN: 0143-4160

124 ANSWER 133 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Optimization of Electroporation for Biochemical Experiments in
Live Cells
SO Biochemical and Biophysical Research Communications (1999),
256(1), 256-259
CODEN: BBRCA9, ISSN: 0006-291X

124 ANSWER 134 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Viscosity- and Inertia-Limited Rupture of Dextran-Supported Black Lipid
Membranes
SO Journal of Physical Chemistry B (1999), 103(9), 1402-1407
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SO Shegging Kewei Yanjiu (1998), 2(3), 172-176
CODEN: SKYAEI, ISSN: 1007-7847

124 ANSWER 136 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Effects of iontophoresis and electroporation on the stratum corneum
Review of the biophysical studies
SO Advanced Drug Delivery Reviews (1999), 35(1), 89-105
CODEN: ADDREP, ISSN: 0169-409X

124 ANSWER 137 OF 184 CAPLUS COPYRIGHT 2002 ACS
II A practical assessment of transdermal drug delivery by skin
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SO Advanced Drug Delivery Reviews (1999), 35(1), 61-76
CODEN: ADDREP, ISSN: 0169-409X

124 ANSWER 138 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Mechanistic studies of macromolecular transdermal transport due to skin
electroporation
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CODEN: ADDREP, ISSN: 0169-409X

124 ANSWER 139 OF 184 CAPLUS COPYRIGHT 2002 ACS
II Theory of electrical creation of aqueous pathways across skin
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barriers
SO Advanced Drug Delivery Reviews (1999), 35(1), 21-39
CODEN: ADDREP, ISSN: 0169-409X

124 ANSWER 140 OF 184 BIOSIS COPYRIGHT 2002
BIOLOGICAL ABSTRACTS INC.
II Electroporation of human skin: Simultaneous measurement of
changes in the
transport of two fluorescent molecules and in the passive electrical
properties.
SO Bioelectrochemistry and Bioenergetics, (1996) Vol. 39, No. 1, pp.
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ISSN: 0302-4598.

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BIOLOGICAL ABSTRACTS INC.
II Factors affecting transdermal delivery of metoprolol by
electroporation.
SO Bioelectrochemistry and Bioenergetics, (1995) Vol. 38, No. 1, pp.
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SO Journal of Controlled Release, (1995) Vol. 34, No. 3, pp. 211-221.
ISSN: 0168-3659.

124 ANSWER 143 OF 184 BIOSIS COPYRIGHT 2002
BIOLOGICAL ABSTRACTS INC.
II GENETIC ENGINEERING OF MICROALGAE FOR THE
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SO THIRTEENTH SYMPOSIUM ON BIOTECHNOLOGY FOR
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34(35) 306, 321-329

CODEN ABIRDE, ISSN: 0270-2239

124 ANSWER 124 OF 184 BIOSIS COPYRIGHT 2002

BIOLOGICAL ABSTRACTS INC.

II. BIOPHYSICAL CONSIDERATIONS OF MEMBRANE

125 ELECTROPORATION

SO: CHANG, D. C. ET AL. 1990. GUIDE TO

ELECTROPORATION AND ELECTROFUSION

X-851P. ACADEMIC PRESS, INC., SAN DIEGO, CALIFORNIA,

USA, LONDON, LONDON, UK.

UK: IEE, 1992, 0-86347-22-9

ISBN: 0-86347-22-9 [PAPER] 0-86340-141-0 [HB]

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124 ANSWER 125 OF 184 BIOSIS COPYRIGHT 2002

BIOLOGICAL ABSTRACTS INC.

II. ELECTROPORATION: DIRECT GENE TRANSFER TO HIGHER PLANTS

USING CATIONIC LIPOSOMES

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124 ANSWER 126 OF 184 BIOSIS COPYRIGHT 2002

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II. ELECTROPORATION OF CELL MEMBRANES

SO: Biophys J (1991) 60(2): 297-306

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124 ANSWER 127 OF 184 BIOSIS COPYRIGHT 2002

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II. TRANSIENT EXPRESSION OF GENES IN THE OOMYCETE

PHYTOPHTHORAEUS SANS CPG-G

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SO: Curr Genet (1991) 19(6): 45-460.

CODEN: CEGNE, ISSN: 0342-8033

CODEN: CEGNE, ISSN: 0342-8033

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II. GENE TRANSFER TO PLANTS: ASSESSMENT OF

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SO: BRIGGS, W. R. (ED.) ANNUAL REVIEW OF PLANT

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Palo Alto, California.

USA: IEE, 1991, 0013-7050, 20: 226.

CODEN: ARPLBN, ISSN: 0013-7050, ISBN: 0-8243-0642-2.

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124 ANSWER 129 OF 184 BIOSIS COPYRIGHT 2002

BIOLOGICAL ABSTRACTS INC.

II. SYNTHESIS OF POLYVIRAL RNA AND PROTEINS IN

TOBACCO COMOSOPHYLL PROTOPLASTS

INOCULATED BY ELECTROPORATION

SO: PLANT SCI (SHANNON) (1987) 51(2-3): 295-304.

CODEN: PLSCI4, ISSN: 0168-9452.

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SO: Science (Washington, D.C.) (1987) 236 (4806): 1259-1262.

CODEN: SCIEAB, ISSN: 0036-8075

CODEN: SCIEAB, ISSN: 0036-8075

124 ANSWER 131 OF 184 CAPLUS COPYRIGHT 2002 ACS

II. The study of plant genetic transformation

SO: K. Sui, Song, C. (Appl. 9) (1999) 47(3-4): 112-119.

CODEN: KSPYBE, ISSN: 0452-2230.

CODEN: KSPYBE, ISSN: 0452-2230.

124 ANSWER 132 OF 184 CAPLUS COPYRIGHT 2002 ACS

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Journal code: 0413570 ISSN: 0006-5334

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124 ANSWER 71 OF 184 MEDLINE

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124 ANSWER 76 OF 184 MEDLINE

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Journal code: 7802221 ISSN: 0147-619X

124 ANSWER 79 OF 184 MEDLINE

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124 ANSWER 90 OF 184 MEDLINE

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124 ANSWER 41 OF 184 MEDLINE

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124 ANSWER 42 OF 184 MEDLINE

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Journal code: 0145157 ISSN: 0014-5793.

124 ANSWER 43 OF 184 MEDLINE

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124 ANSWER 44 OF 184 MEDLINE

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124 ANSWER 45 OF 184 MEDLINE

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Journal code: 0372516 ISSN: 0006-291X.

124 ANSWER 46 OF 184 MEDLINE

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124 ANSWER 47 OF 184 MEDLINE

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Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 48 OF 184 MEDLINE

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124 ANSWER 49 OF 184 MEDLINE

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Journal code: 0411011 ISSN: 0305-1048

124 ANSWER 50 OF 184 MEDLINE

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Journal code: 0373226 ISSN: 0014-4827.

124 ANSWER 51 OF 184 MEDLINE

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SO CANCER GENET THERAPY, (1997 Jan-Feb) 4 (1) 17-25
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124 ANSWER 52 OF 184 MEDLINE

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Immunofluorescence to electroporation
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Journal code: 9216789 ISSN: 0145-5680

124 ANSWER 53 OF 184 MEDLINE

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124 ANSWER 54 OF 184 MEDLINE

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124 ANSWER 55 OF 184 MEDLINE

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Journal code: 0242543 ISSN: 0021-9150

124 ANSWER 56 OF 184 MEDLINE

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Journal code: 8406521 ISSN: 0724-8741

124 ANSWER 57 OF 184 MEDLINE

II Contrasting effects of pinocembrin and agonist-mediated activation of protein kinase C on phosphoinositide and Ca²⁺ signalling in a human neuroblastoma cell line
SO BIOCHEMICAL JOURNAL, (1996 Jun) 316 (Pt 3) 905-12.
Journal code: 2984726R ISSN: 0264-6021

124 ANSWER 58 OF 184 MEDLINE

II Electro-optics of membrane **electroporation** in diphenylhexatriene-doped **lipid** bilayer vesicles.
SO BIOPHYSICAL CHEMISTRY, (1996 Jan 16) 58 (1-2) 109-16.
Journal code: 0403171 ISSN: 0301-4622

124 ANSWER 59 OF 184 MEDLINE

II Delivery of protein antigen to the major histocompatibility complex class I-restricted antigen presentation pathway.
SO JOURNAL OF DRUG TARGETING, (1995) 3 (2) 91-109. Ref 175
Journal code: 9312476 ISSN: 1061-186X

• d. so 20-39

124 ANSWER 60 OF 184 MEDLINE

II Protrusive growth from giant liposomes driven by actin polymerization.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1999 Mar 2) 96 (5) 2048-53
Journal code: 7505879 ISSN: 0027-8424

124 ANSWER 61 OF 184 MEDLINE

II Failure to achieve gene conversion with chimeric circular oligonucleotides: potentially misleading PCR artifacts observed
SO ANNUAL REPORTS ON NUCLEIC ACID DRUG DEVELOPMENT, (1998 Dec) 8 (6) 531-6
Journal code: 9606442 ISSN: 1087-2906

124 ANSWER 22 OF 184 MEDLINE

II Improved transfection efficiency of chicken gonadal primordial germ cells
for the production of transgenic poultry
SO TRANSGENIC RESEARCH, (1998 Jul) 7 (4) 247-52
Journal code: 9209126 ISSN: 0962-8819

124 ANSWER 23 OF 184 MEDLINE

II Kinetics of ultraweak light emission from human erythroleukemia K562 cells
upon electroporation.
SO BIOPHYSICAL BIOPHYSICA ACTA, (1998 Nov 11) 1414 (1-2) 43-50.
Journal code: 0217513 ISSN: 0006-3062

124 ANSWER 24 OF 184 MEDLINE

II Up-regulation of the expression of major histocompatibility complex class I antigens by plasmid DNA transfection in non-hematopoietic cells.
SO FEBS LETTERS, (1998 Sep 25) 436 (1) 55-60.
Journal code: 0155157 ISSN: 0014-5793

124 ANSWER 25 OF 184 MEDLINE

II Proteoglycans mediate cationic liposome-DNA complex-based gene delivery in vitro and in vivo.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Oct 2) 273 (40) 26164-70.
Journal code: 2985121R ISSN: 0021-9258

124 ANSWER 26 OF 184 MEDLINE

II Electroperturbation of human stratum corneum fine structure by high voltage pulses: a freeze-fracture electron microscopy and differential thermal analysis study.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, SYMPOSIUM PROCEEDINGS, (1998 Aug) 3 (2) 153-5.
Journal code: 9609659 ISSN: 1087-0024

124 ANSWER 27 OF 184 MEDLINE

II Theory of skin electroporation: implications of straight-through aqueous pathway segments that connect adjacent corneocytes.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, SYMPOSIUM PROCEEDINGS, (1998 Aug) 3 (2) 143-7.
Journal code: 9609059 ISSN: 1087-0024

124 ANSWER 28 OF 184 MEDLINE

II The reduction in **electroporation** voltages by the addition of a surfactant to planar **lipid** bilayers.
SO BIOPHYSICAL JOURNAL, (1998 Aug) 75 (2) 880-8.
Journal code: 0370626 ISSN: 0006-3495

124 ANSWER 29 OF 184 MEDLINE

II In vivo gene transfer methods in the bladder without viral vectors
SO BRITISH JOURNAL OF UROLOGY, (1998 Jun) 81 (6) 870-4.
Journal code: 1574009R ISSN: 0007-1331

124 ANSWER 30 OF 184 MEDLINE

II Electroporation and shock-induced transmembrane potential in a cardiac fiber during defibrillation strength shocks
SO ANNALS OF BIOMEDICAL ENGINEERING, (1998 Jul-Aug) 26 (4) 584-96.
Journal code: 0361512 ISSN: 0090-6964

124 ANSWER 31 OF 184 — MEDLINE
 II: Spatial dynamics of GFP-tagged proteins investigated by local fluorescence enhancement
 SO: NATURE BIOTECHNOLOGY, (1996 Oct) 14 (10) 1252-6
 Journal code: 9604648 ISSN: 1087-0156

124 ANSWER 32 OF 184 — MEDLINE
 II: A novel method for DEAE-dextran-mediated transfection of adherent primary cultured human macrophages.
 SO: JOURNAL OF IMMUNOLOGICAL METHODS, (1998 Feb) 211 (1-2) 79-86
 Journal code: 1305440 ISSN: 0022-1759

124 ANSWER 33 OF 184 — MEDLINE
 II: Electrical properties of skin at moderate voltages: contribution of appendageal macropores.
 SO: BIOPHYSICAL JOURNAL, (1998 Feb) 74 (2 Pt 1) 843-56
 Journal code: 0370626 ISSN: 0006-3495

124 ANSWER 34 OF 184 — MEDLINE
 II: Chronopotentiometric studies of **electroporation** of bilayer lipid membranes.
 SO: BIOCHIMICA ET BIOPHYSICA ACTA, (1998 Mar 2) 1369 (2) 204-12
 Journal code: 0217513 ISSN: 0006-3002

124 ANSWER 35 OF 184 — MEDLINE
 II: Electro-encapsulating drugs within blood platelets: local delivery to injured arteries during angioplasty.
 SO: SEMINARS IN INTERVENTIONAL CARDIOLOGY, (1996 Mar) 1 (1) 91-102; Ref: 27
 Journal code: 9606070 ISSN: 1084-2764.

124 ANSWER 36 OF 184 — MEDLINE
 II: Transient transfection of oligodendrocyte progenitors by electroporation.
 SO: NEUROTHIMICAL RESEARCH, (1998 Mar) 23 (3) 421-6
 Journal code: 7613461 ISSN: 0364-3190

124 ANSWER 37 OF 184 — MEDLINE
 II: Changes in the electrical properties of the skin outermost layer during pulse electrotreatment.
 SO: MEMBRANE AND CELL BIOLOGY, (1997) 11 (3) 367-80
 Journal code: 9517472 ISSN: 1023-6597

124 ANSWER 38 OF 184 — MEDLINE
 II: Reversible skin permeabilization for transdermal delivery of macromolecules.
 SO: CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS, (1997) 14 (4) 455-83; Ref: 206
 Journal code: 8511159 ISSN: 0743-4865

124 ANSWER 39 OF 184 — MEDLINE
 II: Mechanism of electroporative dye uptake by mouse B cells.
 SO: BIOPHYSICAL JOURNAL, (1998 Jan) 74 (1) 98-108
 Journal code: 0370626 ISSN: 0006-3495

dissolve →

124 ANSWER 40 OF 184 — MEDLINE
 II: Transdermal administration of drugs by electroporation/ Administration transdermique de medicaments par electroporation
 SO: BULLETIN ET MEMOIRES DE L'ACADEMIE ROYALE DE MEDICINE DE BELGIQUE, (1999) 154 (6 Pt 2) 327-33
 Journal code: 7608462 ISSN: 0377-8231

124 ANSWER 41 OF 184 — MEDLINE
 II: Pharmaceutical therapies for sealing of permeabilized cell membranes in electrical injuries.
 SO: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 266-71
 Journal code: 7506858 ISSN: 0077-8923

124 ANSWER 42 OF 184 — MEDLINE
 II: Changes in **electroporation** thresholds of lipid membranes by surfactants and peptides.
 SO: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 249-65
 Journal code: 7506858 ISSN: 0077-8923

124 ANSWER 43 OF 184 — MEDLINE
 II: Biological effects of electric shock and heat denaturation and oxidation of molecules, membranes, and cellular functions.
 SO: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 211-32
 Journal code: 7506858 ISSN: 0077-8923

124 ANSWER 44 OF 184 — MEDLINE
 II: Dynamics of membrane sealing in transient electroporabilization of skeletal muscle membranes.
 SO: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct 20) 888 195-210
 Journal code: 7506858 ISSN: 0077-8923

124 ANSWER 45 OF 184 — MEDLINE
 II: Membrane electroporation and electromechanical deformation of vesicles and cells.
 SO: FARADAY DISCUSSIONS, (1998) (111) 111-25; discussion 137-57
 Journal code: 9212301 ISSN: 1459-6640

124 ANSWER 46 OF 184 — MEDLINE
 II: Efficient and reliable transfection of mouse erythroleukemia cells using cationic lipids.
 SO: BLOOD CELLS, MOLECULES, AND DISEASES, (1999 Oct-Dec) 25 (5-6) 299-304
 Journal code: 9509932 ISSN: 1079-9796

124 ANSWER 47 OF 184 — MEDLINE
 II: Chemical and physical in vitro alterations of the erythrocyte membrane: a model for its pathophysiological states?
 SO: NOVARTIS FOUNDATION SYMPOSIUM, (1999) 226 20-34; discussion 34-6; Ref: 20
 Journal code: 9807767

124 ANSWER 48 OF 184 — MEDLINE
 II: Apoptosis induced by DNA uptake limits transfection efficiency.
 SO: EXPERIMENTAL CELL RESEARCH, (1999 Dec 15) 253 (2) 541-50
 Journal code: 0373226 ISSN: 0014-4827

124 ANSWER 49 OF 184 — MEDLINE
 II: Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NE-lysin.
 SO: LIBS LETTERS, (1999 Nov 26) 462 (1-2) 155-8
 Journal code: 0155157 ISSN: 0014-5793

124 ANSWER 50 OF 184 — MEDLINE
 II: Protective role for proteoglycans against cationic lipid cytotoxicity, allowing optimal transfection efficiency in vitro.
 SO: BIOCHEMICAL JOURNAL, (1999 Sep 1) 342 (Pt 2) 281-6
 Journal code: 2984726K ISSN: 0264-6021

124 ANSWER 51 OF 184 — MEDLINE
 II: Expression and functional characterization of the cardiac muscle

ryanodine receptor/Ca²⁺ release channel in Chinese hamster ovary cells. *SO: BIOPHYSICAL JOURNAL*, (1999 Aug) 77 (2) 808-16. Journal code: 0370626 ISSN: 0006-2495

124 ANSWER 13 OF 184 MEDLINE

II: Electroporation-mediated topical delivery of vitamin C for cosmetic applications. *SO: BIOTECHNOCHEMISTRY AND BIOENERGETICS*, (1999 May) 13 (2) 452-61. Journal code: 9558877 ISSN: 0302-4598

124 ANSWER 14 OF 184 MEDLINE

II: The effects of gramicidin on **electroporation of lipid bilayers**.

SO: BIOPHYSICAL JOURNAL, (1999 Jun) 76 (6) 3150-7. Journal code: 0370626 ISSN: 0006-2495

124 ANSWER 15 OF 184 MEDLINE

II: Electric field-induced transient bioluminescence and light scattering of synthetic liposomes. *SO: BIOCHIMICA ET BIOPHYSICA ACTA*, (1999 May 12) 1418 (2) 295-300. Journal code: 017513 ISSN: 0006-3002

124 ANSWER 16 OF 184 MEDLINE

II: Time-dependent ultrastructural changes to porcine stratum corneum following an electric pulse.

SO: BIOPHYSICAL JOURNAL, (1999 May) 76 (5) 2824-32. Journal code: 0370626 ISSN: 0006-2495

124 ANSWER 17 OF 184 MEDLINE

II: Kinetics of sealing for transient electropores in isolated mammalian skeletal muscle cells.

SO: BIOTECHROMAGNETICS, (1999) 20 (3) 194-201. Journal code: 8008281 ISSN: 0197-8462

124 ANSWER 18 OF 184 MEDLINE

II: Transfection of myelomonocytic cell lines: cellular response to a **lipid-based reagent and electroporation**.

SO: ANALYTICAL BIOCHEMISTRY, (1999 Apr 10) 269 (1) 219-21. Journal code: 0370535 ISSN: 0003-2697

124 ANSWER 19 OF 184 MEDLINE

II: Chemical transformations in individual ultrasmall biomimetic containers.

SO: SCIENCE, (1999 Mar 19) 283 (5409) 1892-5. Journal code: 0404511 ISSN: 0360-8075

=> ddbab 178 176,157,148,146,133,93,87,83,77,22

124 ANSWER 128 OF 184 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990546085 CAPLUS

DOCUMENT NUMBER: 13-146085

II: Methods for introducing DNA into mammalian cells. AUTHOR(S): Keown, Wayne A.; Campbell, Colin R.; Kucherlapati, Raju S.

CORPORATE SOURCE: Cook Med. Univ. Illinois, Chicago, IL, 60612, USA

SOURCE: Methods Enzymol. (1990), 185(Gene Expression Technol.), 527-577. CODEN: MLENZU ISSN: 0076-6879

DOCUMENT TYPE: Journal, General Review

LANGUAGE: English

AB: A review with 48 refs. DNA transfer methods discussed include:

calcium phosphate coprecip., DEAE-Dextran-mediated transfection, elec-

field-mediated transfection (**electroporation**).

polybrene-mediated transfection, **lipid**-mediated transfection,

lipofection, red blood cell-mediated transfection, DNA

microinjection, the

laser method, and microprojectile-mediated gene transfer.

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991225107 CAPLUS

DOCUMENT NUMBER: 114-225107

II: **Electroporation of lipid vesicles** by inner electric fields.

AUTHOR(S): Chirmadzhev, Yu. A.; Pastushenko, V. I.

CORPORATE SOURCE: AN Frimkin Inst. Electrochem.,

Moscow, USSR

SOURCE: Charge Field Elec. Biosyst. -2, [Proc. Int. Symp.]

(1989), 233-9. (Editors): Alfen, Milton Joel; Cleary,

Stephen J.; Hawridge, Fred M. Plenum, New York, N.Y.

CODEN: 56AZM

DOCUMENT TYPE: Conference

LANGUAGE: English

AB: **Electroporation of lipid** membranes by outer elec-

field has been studied in detail in plane bilayers bordering on

menisci.

Vesicle systems require other methods of anal., since they lack the tension-providing menisci. Of significance in this case is also the drop

of the elec. potential, caused by the increase in the pore size, esp. in studies of the breakdown by the membrane potential. This paper discusses these problems

124 ANSWER 157 OF 184 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995849424 CAPLUS

DOCUMENT NUMBER: 123-250642

II: Apparatus and method for efficient incorporation of molecules into cells.

INVENTOR(S): Korenstein, Raffi; Rosenberg, Yosef; Zan-Bar, Israel

PATENT ASSIGNEE(S): Ramot-University Authority for Applied Research and Industrial Development Ltd., Israel

SOURCE: PCT Int. Appl. 44 pp.

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

COUNTRY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 952-211 AI 19950831 WO 1995-082309 19950224

W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, FI, GE, HU, JP, KR, KZ, LK, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SD, SI, SK, TR, TT, UA, UZ, VN

RW: EE, MW, SD, SZ, UG, AT, BE, CH, DL, DE, ES, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE, BE, BI, CT, CG, CL, CM, GA, GN, ME, MR, NE

SN, TD, 16

AU 9519307 AI 19950911 AU 1995-19307 19950224

EP 750663 AI 19970102 EP 1995-911912 19950224

R: DE, ES, FR, GB, HU

PRIORITY APPLN. INFO: IL 1994-108275 19940225

WO 1995-082309 19950224

AB: A method and app. for incorporating macromols. into membrane vesicles.

cells or tissue by electroporation is presented. The method involves the

steps of: (1) applying a train of low unipolar or alternating voltage pulses to the macromols. and cells; (2) increasing the concn. of the macromols. at the surface of the cells; and (3) allowing the

macromols. to penetrate into the cytosol of the cells through the destabilized cell membrane. The app. includes a support plate having apertures for

allowing the electrodes to pass through it. Support tubes located within the

electrodes to pass through it. Support tubes located within the

apertures surround the electrodes. An elec. current-supplying mechanism connected to the electrode, supplies sufficient elec. current to a cell to facilitate the introduction of macromols. into the cell.

124 ANSWER 143 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998139056 CAPLUS

TITLE: Detection of **electroporation** of **liposomes** by means of a fast electron transfer reaction

AUTHORS: Correa, N; Mariano, Schelly, Z A
CORPORATE SOURCE: Center Colloid and Interfacial Dynamics, University

Texas, Arlington, TX, 76019-0005 USA
SOURCE: Book of Abstracts, 212th ACS National Meeting, Dallas,

March 29-April 2 (1998), C04-168 American Chemical Society, Washington, D. C

CODEN: 65Q1VA

DOCUMENT TYPE: Conference, Meeting Abstract

LANGUAGE: English

AB: **Electroporation** is a reversible transient pore formation in surfactant bilayers such as cell membranes, vesicles or **liposomes**, induced by a high-voltage elec. pulse applied to the suspension.

The applied field elongates the time av. spherical shells and reorients the induced dipoles parallel to E_0 . The evolution of the structural anisotropy can be monitored through the birefringence of the system. In addn. above

threshold values of the field strength and pulse length, pore formation may occur in the polar regions of the cl^l psidial shells. To detect if and when pore formation occurs in the course of events, we used the electron transfer reaction $\text{Ir}(\text{IV}) + \text{Fe}(\text{II}) \rightarrow \text{Ir}(\text{III}) + \text{Fe}(\text{III})$ as a probe - b. originally entrapping $\text{Fe}(\text{II})$ inside and placing $\text{Ir}(\text{IV})$ outside

the liposomes. The reaction can only occur when pores are formed.

124 ANSWER 146 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998329679 CAPLUS

DOCUMENT NUMBER: 129118293

TITLE: Improving the effectiveness of non-viral gene transfer methods

AUTHORS: Hui, Sek-Wen; Li, Tin-Hong; Ross, Patrick; Stoicheva,

Natalia; Zhao, Yali

CORPORATE SOURCE: Membrane Biophysics Laboratory, Roswell Park Cancer Institute, Buffalo, NY, 14265, USA

SOURCE: Cellular & Molecular Biology Letters (1997), 2(Suppl.), 1, Biophysics of Membrane Transport, Pt. 1, 97-110
CODEN: CMBLF, ISSN: 1425-8153

PUBLISHER: University of Wroclaw, Institute of Biochemistry, Dep. of Genetic Biochemistry

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB: A review, with 15 refs., and discussion on the use of cationic **lipids** and **electroporation** in non-viral gene transfer methods for the purpose of improving gene delivery.

124 ANSWER 133 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999144726 CAPLUS

DOCUMENT NUMBER: 130324880
TITLE: Optimization of Electroporation for Biochemical Experiments in Live Cells

AUTHORS: Meldrum, Rosalind A; Bowi, Michael; Ong, Swee Bee,

Richardson, Simon

CORPORATE SOURCE: School of Biochemistry, University of

Birmingham, Birmingham,

B15 2TT, UK

SOURCE: Biochemical and Biophysical Research

Communications

(1999), 256(1), 235-239

CODEN: BBRCA9, ISSN: 0006-291X

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB: To introduce into cells small mols., which do not permeate the cell membrane naturally, electroporation is the fastest and most efficient technique. Although it is not completely benign, the speed at which a full population of cells can be permeated gives it a strong advantage over

all other cell permeation techniques. Here we describe the potential damaging effects of electroporation and how to derive conditions which

avoid these and assure its use for biochem. expts. in live cells. (c)

1999 Academic Press.

REFERENCE COUNT: 11 THERE ARE 11 CITED

REFERENCES AVAILABLE FOR THIS RECORD: ALL CITATIONS AVAILABLE IN THE REFORMAT

124 ANSWER 93 OF 184 MEDLINE

ACCESSION NUMBER: 89042117 MEDLINE

DOCUMENT NUMBER: 89042117 PubMed ID: 3186704

TITLE: Gene transfer from targeted **liposomes** to specific lymphoid cells by **electroporation**.

AUTHOR: Machy P; Lewis E; McMillan L; Jonak Z I
CORPORATE SOURCE: Department of Cell Biology, Smith Kline & French

Laboratories, King of Prussia, PA 19406-2799

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1988 Nov) 85 (21) 8027-31

Journal code: 7505876, ISSN: 0027-8424.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; JOURNAL ARTICLE

LANGUAGE: English

PUB. SEGMENT: Priority Journals

ENTRY MONTH: 198812

ENTRY DATE: Entered STN: 19900308

Last Updated on STN: 19900308

Entered Medline: 19881209

AB: Large unilamellar **liposomes**, coated with protein A and encapsulating the gene that confers resistance to mycophenolic acid, were

used as a model system to demonstrate gene transfer into specific lymphoid

cells. Protein A, which selectively recognizes mouse IgG2a

antibodies, was

coupled to **liposomes** to target them specifically to defined cell types coated with IgG2a antibody. Protein A-coated **liposomes** bound human B lymphoblastoid cells preincubated with a mouse IgG2a

anti-HA monoclonal antibody but failed to adhere to cells

challenged with an irrelevant (anti-H-2) antibody of the same isotype or to cells incubated in the absence of antibody. Transfection of target cells

bound

to protein A-coated **liposomes** was achieved by **electroporation**. This step was essential since only

electroporated cells survived in a selective medium containing mycophenolic acid. Transfection efficiency with **electroporation** and targeted **liposomes** was as efficient as conventional procedures that used unencapsulated plasmids free in solution but, in

the latter case, cell selectivity is not possible. This technique provides a methodology for introducing defined biological macromolecules into specific cell types.

124 ANSWER 37 OF 184 MEDLINE
 ACCESSION NUMBER: 91199726 MEDLINE
 DOCUMENT NUMBER: 91199726 PubMed ID: 2086036
 TITLE: Gene transfer methods for plants and cell cultures
 AUTHOR: Potrykus I
 CORPORATE SOURCE: Institute for Plant Sciences, Swiss Federal Institute of Technology (ETH), Zurich, Zurich
 SOURCE: CIBA FOUNDATION SYMPOSIUM, (1990) 154:198-208, discussion 212-213
 JOURNAL CODE: 0356636 ISSN: 0300-5208
 PUBLICATION: Netherlands
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 General Review (REVIEWS)
 ORVIEW, TUTORIAL
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199105
 ENTRY DATE: Entered SIN: 19910607
 Last Updated on SIN: 19910607
 Entered Medline: 19910521
 AB Agrobacterium-mediated gene transfer provides a routine and efficient gene transfer system for a variety of plant species. As this biological vector does not, however, function with important plant species, numerous alternative approaches have been studied. Of those, direct gene transfer into protoplasts, microinjection and biolistics have been demonstrated to be effective. Others, for example, viral vectors, agroinfection, liposome injection and electrophoresis may have special merits, although transgenic plants have not been produced by these techniques; etc. From methods based on pollen transformation, the pollen tube pathway, pollen maturation, incubation of dry seeds, incubation of tissues, liposome fusion with tissues, macroinjection, laser treatment and electroporation of tissues no proof of integrative transformation is available, so far, and it is difficult to envisage how these approaches will ever produce transgenic cells and plants. We discuss (a) why Agrobacterium does not function with all plants, (b) what merits and disadvantages we see for the effective methods, (c) what possibilities we foresee for some of the other approaches, and (d) why we do not expect the remaining ones to be successful.

124 ANSWER 83 OF 184 MEDLINE
 ACCESSION NUMBER: 92089132 MEDLINE
 DOCUMENT NUMBER: 92089132 PubMed ID: 1661151
 TITLE: Increased binding of liposomes to cells by electric treatment
 AUTHOR: Chiemomordik I V; Papahadjopoulos D; Tsong T Y
 CORPORATE SOURCE: Department of Biochemistry, University of Minnesota, St. Paul
 CONTRACT NUMBER: CA 35340 (NCI)
 GM 28117 (NCI)
 SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1991) Nov 186:1070-111
 JOURNAL CODE: 0217513 ISSN: 0006-3002
 PUBLICATION: Netherlands
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199201
 ENTRY DATE: Entered SIN: 19920216
 Last Updated on SIN: 19970207
 Entered Medline: 19920129
 AB The influence of electric field treatments on the interaction of large

amphiphilic vesicles (**liposomes**) with animal cells was monitored by the fluorescence assay based on the use of the **liposomes** loaded by a dye 1-hydroxypyrene-1,3,6-trisulfonic acid (HPTS). It was shown that application of a short electric pulse (100 microseconds of 34 kV/cm) to the suspension of cells in presence of vesicles resulted in significant (more than 2 times) increase of the fluorescence associated with cells. The pH-sensitivity of the excitation spectrum of the dye and its interaction with the quencher were used to determine the nature of the phenomenon as the increase of the **liposome** binding onto the cell surface but not the consequence of a promotion of **liposome** uptake into the cells by endocytosis. The higher affinity for the **liposome** caused by the electric field has a lifetime of several minutes. The possible relation of the effect described to the **electroporation** of cell membranes and to macroscopic changes in membrane structure is discussed.

124 ANSWER 77 OF 184 MEDLINE
 ACCESSION NUMBER: 93365553 MEDLINE
 DOCUMENT NUMBER: 93365553 PubMed ID: 8359218
 TITLE: Induced endocytosis in human fibroblasts by electrical fields
 AUTHOR: Glogauer M; Lee W; McCulloch C A
 CORPORATE SOURCE: Faculty of Dentistry, University of Toronto, Ontario, Canada
 SOURCE: EXPERIMENTAL CELL RESEARCH, (1993 Sep 208) 142:232-40
 JOURNAL CODE: 0373226 ISSN: 0014-4827
 PUBLICATION: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199309
 ENTRY DATE: Entered SIN: 19931015
 Last Updated on SIN: 19931015
 Entered Medline: 19930930
 AB **Electroporation** creates transient pores through which exogenous molecules can gain access to the cell cytoplasm. However, the electrical events associated with this phenomenon may perturb membrane-dependent events such as endocytosis. To measure the effect of **electroporation** on endocytosis, suspensions of human gingival fibroblasts were subjected to 5-ms electrical discharges, allowed to recover for variable periods of time, incubated with fluorescent probes, and then analyzed by flow cytometry. Incubation of **electroporated** fibroblasts with FITC-conjugated bovine serum albumin (BSA) to label moieties on cell membranes nonspecifically demonstrated a time-dependent increase of internalized probe for up to 90 min after **electroporation**. Pretreatment incubation of cells with cytochalasin D abrogated the increased internalization of FITC-BSA due to **electroporation**. Compared to controls, fluorescence signals due to internalization of surface glycoproteins with FITC-concanavalin A were 43% higher after **electroporation** and treatment with endoglycosidase F or H to reduce probe associated with surface membrane. Confocal microscopy confirmed intracellular labeling and reduction of membrane-associated probe by the enzyme. Assessment of nonspecific FITC-Con A labeling of cells by pretreatment with alpha-methyl D-mannoside showed that labeling was largely (92%) specific. Compared to controls, **electroporation** induced a 60% increase of internalization of lucifer yellow, a fluid-phase endocytosis marker. Dual fluorescence

labeling of membrane phospholipids by FITC and TRITC-DHPI demonstrated an increased acidification after **electroporation** that was time dependent, indicating that **electroporation** induced more rapid entry of membrane **lipid** into endosomal compartments. These data demonstrate that the electrical fields used in **electroporation** of fibroblasts cause an actin-dependent increase in the internalization of all membrane components examined and an increased rate of probe entry into acidifying compartments.

124 ANSWER 22 OF 134 MEDLINE

ACCESSION NUMBER: 1990676316 MEDLINE

DOCUMENT NUMBER: 990676316 PubMed ID: 9359213

TITLE: Improved transfection efficiency of chicken gonadal primordial germ cells for the production of transgenic poultry.

AUTHOR: Hong Y H, Moon Y K, Jeong D E, Han J Y

CORPORATE SOURCE: Department of Animal Science and

Technology, College of

Agriculture and Life Sciences, Seoul National University, Suwon, Korea.

SOURCE: TRANSGENIC RESEARCH, 1998 Jul 7 (4) 247-52.

Journal code: 9209120, ISSN: 0962-8219

PUB COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal Article, (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199901

ENTRY DATE: Entered SIN: 19990202

Last Updated on SIN: 19990202

Entered Medline: 19990119

AB **Electroporation** is a common method of DNA transfection for many types of eukaryotic cells, but has not been attempted in avian primordial germ cells (PGCs). DNA uptake in chicken primordial germ cells (PGCs) was tested using **electroporation** with and without dimethyl sulfoxide (DMSO). Gonadal tissue and chicken embryonic fibroblasts (CEFs) were isolated from 6-day-old embryos (stage 29), transfected with pGEM beta carrying the bacterial lacZ gene, and cultured for 24 h. Gonadal primordial germ cells (gPGCs) were purified from culture using a Ficoll gradient. The addition of DMSO significantly increased the transfection efficiency of gPGCs but had no effect on chicken embryonic fibroblasts.

Electroporation of gPGCs resulted in an 80% transfection efficiency compared with about 17% observed with **liposomes**. Approximately 200 transfected gPGCs were injected into 2.5-day-old (stage 17) recipient embryos and the eggs were incubated for an additional 3.5 days, 7.5 days or to hatching. The exogenous gene was detectable in 100%, 67% and 41% of the 6-day-old (stage 29), 10-day-old (stage 36) recipient embryos and hatched chicks gonads, respectively. PCR analysis of DNA from the hatched chicks showed that exogenous lacZ DNA was detected only in the gonad and not the liver and heart. These results indicated that **electroporation** is a suitable means of transfecting avian gPGCs for the goal of producing transgenic poultry.

END

'IS' IS NOT A VALID FORMAT

In a multi-line environment, a format can only be used if it is valid

in at least one of the files. Refer to file specific help messages or the \$INFO[IDE] file for information on formats available in individual files.

REENTER DISPLAY FORMAT FOR FILE F11

DEFINITION

ENDS

FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002

FILE 'MEDLINE' BIOSIS, CAPES ENTERED AT 15:05:47 ON

02 OCT 2002

11 482 S MIGOCET MEDIALIZED CHROMOSOME

TRANSFER

12 11852 S ELECTROPORAT?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFER?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

20 23 DUP REM 19 (18 DUPLICATES REMOVED)

21 13745 S 12 OR 15 OR 17

22 2 S 11 AND 11

23 0 S 12 NOT 13

24 775 S 18 AND 11

25 831822 S MIGELLE OR LIPID OR LIPOSOME

26 13 S 14 AND 115

27 9 DUP REM 116 (4 DUPLICATES REMOVED)

28 825 S 11(S)15

29 11928 S 12 OR 15

30 477 S 15(S)19

31 280 DUP REM 120 (197 DUPLICATES REMOVED)

32 2737 S LARGL DNA

33 0 S 121 AND 122

34 184 S 121 NOT PY-1999

ENDS

FILE 'S' FACS OR CELL SORT?

125 23471 FACS OR CELL SORT?

126 211 AND 125

127 dup rem 126

PROCESSING COMPLETED FOR 126

127 2 DUP REM 126 (0 DUPLICATES REMOVED)

128 diti sol-2

'SOL-2' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DAI ----- AN, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

IPC ----- International Patent Classifications

MAX ----- ALL, plus Patent FAM, RE

PATS ----- PI, SO

SAM ----- CC, SX, II, SI, II

SCAN ----- CC, SX, II, SI, II (random display, no answer numbers)

SCAN must be entered on the same line as the DISPLAY,

e.g., DSCAN or DISPLAY SCAN)

STD ----- BIB, IPC, and NC

TABS ----- ABS indented with text labels

TALL AEE, indented with text labels
 TIBIB BIB, indented with text labels
 TMAX MAX, indented with text labels
 TSTD STD, indented with text labels
 OBIB AN, plus Bibl graphic Data original
 OBIB OBIB, indented with text labels

SBIB BBB, no citation
 SBIB TIBIB, no citations

HIT* Fields containing hit terms
 HITIND IC, IC.A, IC.B, IC.C and index field (SI and ID) containing hit terms
 HITRN HIT RN and its text modification
 HITSTR HIT RN, its text modification, its CA index name, and its structure diagram
 HITSEQ HIT RN, its text modification, its CA index name, its structure diagram plus NLE and SEQ fields
 HITSTR First HIT RN, its text modification, its CA index name, and its structure diagram
 HITSEQ First HIT RN, its text modification, its CA index name, its structure diagram, plus NLE and SEQ fields
 KWIC Hit term plus 20 words on either side
 OCC Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DISPLAYS at an arrow prompt (>). Examples of formats include: TI, TI.A; BIB;SI; TIIND; TISQ. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, HITSEQ, HITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB) end

> d:ri so 1-2

127 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 TI Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
 SO PCT Int. Appl., 149 pp.

CODEN: PIXND2

127 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
 TI Diagnosis, prognosis and treatment of cancer related to the Barx2 gene
 SO PCT Int. Appl., 190 pp.

CODEN: PIXND2

> d:rib ab 1-2

127 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002276207 CAPLUS
 DOCUMENT NUMBER: 136289914
 TI111 Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
 INVENTOR(S): Beaudet, Arthur, Bodamer, Olat, Killary, Ann, Lovell, Mercedes
 PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 149 pp

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC NUM COUNT: 1

PATENT INFORMATION

PATENT NO	KIND DATE	APPLICATION NO	DATE
WO 2002029107	A2 20020411	WO 2001-US30962	20011002
W, AF, AG, AL, AM, AL, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HP, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PR, RO, RU, SD, SE, SG, SI, SL, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZW, AL, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE, TR, BE, RI, CL, CG, CT, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	US 2002137067	A1 20020926	

PRIORITY APPN. INFO.: US 2000-237471P P 20001002

AB: The present invention relates to a method for detection and interpretation

of loss-of-function or gain-of-function mutations for test genes of interest. The genes of interest include those assoed. with inherited genetic disorders. The method involves testing for gene function by transferring single copies of individual human chromosomes into a suitable

host cell. Human cells are obtained from peripheral blood. Transfer

is preferably by **microcell-mediated chromosome transfer**. Transfer is screened for anal. of expression of a marker gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins

such as ICAM-1 that can be easily assayed or used for fluorescence activated **cell sorting**. The method is demonstrated by detection of a mutation in the human LDL receptor gene on chromosome 19 using CHO cells as a host.

127 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000900847 CAPLUS
 DOCUMENT NUMBER: 13469875
 TI111 Diagnosis, prognosis and treatment of cancer related to the Barx2 gene

INVENTOR(S): Nelkin, Barry David; Cabra, Hani; Sellar, Grant Clark; Watson, Janet Elizabeth Vivienne; Porteous, David John

PATENT ASSIGNEE(S): Imperial Cancer Research Technology Limited, UK; Johns Hopkins University

SOURCE: PCT Int. Appl., 190 pp

CODEN: PIXND2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC NUM COUNT: 1

PATENT INFORMATION

PATENT NO	KIND DATE	APPLICATION NO	DATE
WO 2000077252	A1 20001221	WO 2000-6B2328	20000615

W, AL, AG, AL, AM, AL, AL, AZ, BA, BB, BG, BR, BY, CA,
CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, ES, EG, GB, GD, GE, GL, GM,
HR, HU,
ID, IE, IS, JP, ET, KG, KP, KR, KZ, LK, LR, LS, LT,
LU,
PA, MA, MD, MG, MK, MP, MW, MN, MZ, NO, NZ, PE, PL,
RO, RU, SD,
SE, SG, SI, SK, SI, TM, TH, TL, TZ, UA, UG, US, UZ,
VN, YU,
ZA, ZW, AM, AZ, BY, EG, KZ, MD, RU, TL, TM,
RW, GL, GM, RE, ES, MW, MZ, SD, SI, SZ, TZ, UG, ZW, AL,
BE, CH, CY,
DE, DK, ES, ET, FI, GB, GR, IE, IT, MC, NL, PL, SI, SE,
SI,

CF, CG, CL, CM, GA, GN, GW, ME, MR, NL, SN, TD, TG
EP 1183392 A1 20020306 - EP 2000942186 20000615

RE, AL, BL, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SI,
MC, PL,

IE, SE, LI, LV, FI, RO

PRIORITY APPN. INFO: US 1999-139320P P 19990615
GB 2000-5466 A 20000308

WO 2000 GB2328 W 20000615

AB: It has been found that the Barx2 gene is mutated in ovarian cancer. The invention provides methods of diagnosis, prognosis and treatment of cancer related to the Barx2 gene by obtaining a sample containing nucleic acid from the patient and hybridizing it with a nucleic acid specific to the Barx2 gene, or a mutant allele thereof.

REFERENCE COUNT: 9 THERE ARE 9 CITED

REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

128 1447377 YAC1 OR MAC1

129 9621 ARTIFICIAL CHROMOSOME

130 dbris

131 PHEM ENTERED AT 150539 ON 02 OCT 2002

132 PHEM/MEDLINE, BIOSIS, CAPEUS ENTERED AT 150547 ON
02 OCT 2002

133 482 S MICROTELE MEDIATED CHROMOSOME
TRANSFER

134 11852 S ELECTROPORAT?

135 2 S11 AND 12

136 2 DUP REM 13 (0 DUPLICATES REMOVED)

137 173 S ELECTROTRANSFECT?

138 26 S TRANSFECT AND ELECTRIC?

139 2095 S TRANSFECT AND PULSE

140 552069 S CHROMOSOME

141 41 S17 AND 18

142 2 DUP REM 19 (18 DUPLICATES REMOVED)

143 13745 S12 OR 15 OR 17

144 2 S111 AND 11

145 6 S112 NO 113

146 775 S18 AND 11

147 831822 S MICROTELE OR LIPID OR LIPOSOME

148 13 S114 AND 115

149 9 DUP REM 116 (4 DUPLICATES REMOVED)

150 825 S110 S115

151 13928 S12 OR 15

152 477 S115 S119

153 280 DUP REM 129 (97 DUPLICATES REMOVED)

154 2737 S1149 DVA

155 9 S121 AND 122

156 184 S121 NO 1 PY -1999

157 22473 S1AC1 OR CEE1 SCORE?

158 2 S11 AND 125

159 2 DUP REM 126 (0 DUPLICATES REMOVED)

160 1447377 S15 AC2 OR MAC1?

161 9621 S ARTIFICIAL CHROMOSOME

162 125 and 129

163 17 125 AND 129

164 dup item 130

PROCESSING COMPLETED FOR 130

165 12 DUP REM 130 (5 DUPLICATES REMOVED)

166 125 and 129

167 ANSWER 1 OF 12 CAPEUS COPYRIGHT 2002 ACS

168 Collections of transgenic animal lines in which a subset of cells characterized by expression of an endogenous "characterizing" gene and

uses

SO PCT Int. Appl. 170 pp.

CODEN: PIXND2

169 ANSWER 2 OF 12 CAPEUS COPYRIGHT 2002 ACS

170 Genetically engineered reporter system expressing fluorescent protein for

rapid detection of cell surface receptor-ligand binding and uses in

high-throughput screening assays

SO PCT Int. Appl. 66 pp.

CODEN: PIXND2

171 ANSWER 3 OF 12 MEDLINE

172 Development of a transgenic green fluorescent protein lineage marker for

steroidogenic factor 1.

SO MOLECULAR ENDOCRINOLOGY, (2002 Oct) 16 (10) 2360-70.
Journal code: 8801431, ISSN: 0888-8809.

173 ANSWER 4 OF 12 MEDLINE DUPLICATE 1

174 Retrofitting of a satellite repeat DNA-based murine **artificial chromosome** (ACes) to contain loxP recombination sites.

SO GENETHERAPY, (2002 Jun) 9 (11) 719-23.

Journal code: 9421525, ISSN: 0969-7128.

175 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

176 Hybridization to high-density filter arrays of a *Brugia malayi* BAC library with biotinylated oligonucleotides and PCR products.

SO Biotechniques, (June, 2001) Vol. 30, No. 6, pp. 1216-1224, print.
ISSN: 0736-6205.

177 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2

178 Membrane cofactor protein (MCP; CD46) expression in transgenic mice.

SO Clinical and Experimental Immunology, (May, 2001) Vol. 124, No. 2, pp.

180-189, print.

ISSN: 0099-9104.

179 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

180 A flow cytometry technique for measuring chromosome-mediated gene transfer.

SO Cytometry, (June 1, 2001) Vol. 44, No. 2, pp. 100-105, print.
ISSN: 0196-4763

181 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

182 A human CD34 PAC clone targets an earlier hematopoietic cell than

endogenous murine CD34 gene in transgenic mice
SO: Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 821a
pmm
Meeting Info: 42nd Annual Meeting of the American Society of
Hematology
San Francisco, California, USA December 01-05, 2000 American
Society of
Hematology
ISSN: 0006-4971

131 ANSWER 9 OF 12 MEDLINE DUPLICATES

11 A technique to diagnose chromosome and plasmid loss in

Saccharomyces

cerevisiae strains

SO: YEAST, (1999 Jul 15) 16(3):109-19
Journal code: 3607637 ISSN: 0749-50, X

131 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 High-throughput screening for novel enzymes by co-encapsulation
and

fluorescence activated **cell sorting** in genome

expression libraries

SO: PCR Int Appl., 95 pp.

CODEN: PIMXD2

131 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Modification of bacterial **artificial chromosome** clones
using Cre recombinase: Introduction of selectable markers for

expression

in eukaryotic cells.

SO: Genome Research, (April, 1998) Vol. 8, No. 4, pp. 404-412.
ISSN: 1088-9051.

131 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 Human genome analysis using chromosome sorting

SO: Tampakatsu Kalusun Koso (1993), 38(3), 268-77

CODEN: TAKKA1 ISSN: 0039-9450

132 **Flow cytometry?**

132 131271LOW CYTOMETER?

133 dms

133 FILE: HOME/ENTERED AT 15:05:39 ON 02 OCT 2002

FILE: MEDLINE, BIOSIS, CAPLUS ENTERED AT 15:05:47 ON

02 OCT 2002

11 1482 S MICROCHEL-MEDIATED CHROMOSOME

TRANSFER

12 1482 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSECT?

16 26 S TRANSECT AND ELECTRIC?

17 2695 S TRANSECT? AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (8 DUPLICATES REMOVED)

111 6745 S 12 OR 15 OR 17

112 2 S 11 AND 11

113 68412 S 0113

114 775 S 18 AND 117

115 8,1822 S MICROCHEL OR LIPID OR LIPOSOME

116 18 S 14 AND 115

117 9 DUP REM 116 (4 DUPLICATES REMOVED)

118 825 S 1116 S 15

119 11928 S 12 OR 15

120 477 S 15 S 0119

121 280 DUP REM 120 (97 DUPLICATES REMOVED)

122 2717 S 12 OF DNA

123 0 S 121 AND 122

124 184 S 121 S 01 PY 1999

125 2347 S 12 S OR CELL SORT?

126 2 S 11 AND 125

127 2 DUP REM 126 (0 DUPLICATES REMOVED)

128 1447377 S 12 S OR MAC?

129 9621 S 12 OF CHROMOSOME

130 17 S 125 AND 129

131 12 DUP REM 130 (5 DUPLICATES REMOVED)

132 13127 S 12 LOW CYTOMETER?

132 S 129 AND 122

133 46129 AND 132

dup rem 133

PROCESSING COMPLETED FOR 133

134 2 DUP REM 133 (7 DUPLICATES REMOVED)

134 S 134 NOT 131

135 dfr so 1-28

135 ANSWER 1 OF 28 MEDLINE

11 Rescue of the lethal self- β phenotype by the human SCL locus.

SO: BLOOD, (2002 Jun 1) 99 (11):3931-8

Journal code: 7603509, ISSN: 0006-4971

135 ANSWER 2 OF 28 MEDLINE

11 Differential regulation of the human and murine CD34 genes in
hematopoietic stem cells.

SO: PROCEEDINGS OF THE NATIONAL ACADEMY OF

SCIENCES OF THE UNITED STATES OF

AMERICA, (2002 Apr 30) 99 (9):6246-51.

Journal code: 7505876, ISSN: 0027-8424.

Journal code: 9003333, ISSN: 1040-452X.

135 ANSWER 3 OF 28 MEDLINE

11 Expression of a reporter gene after microinjection of mammalian
artificial chromosomes into pronuclei of bovine zygotes.

SO: MOLECULAR REPRODUCTION AND DEVELOPMENT, (2001

Dec) 60 (4):433-8.

Journal code: 9003333, ISSN: 1040-452X.

135 ANSWER 4 OF 28 MEDLINE

11 Efficient in-vitro transfer of a 60-Mb mammalian **artificial**
chromosome into murine and hamster cells using cationic lipids and

dendrimers.

SO: CHROMOSOME RESEARCH, (2001) 9 (6):475-85.

Journal code: 9313452, ISSN: 0967-3849.

135 ANSWER 5 OF 28 MEDLINE

11 Specific cytogenetic labeling of bovine spermatozoa bearing X or Y
chromosomes using fluorescent in situ hybridization (FISH).

SO: Genet Sel Evol, (2001 Jan-Feb) 33 (1):89-98.

Journal code: 9114088, ISSN: 0999-193X.

135 ANSWER 6 OF 28 MEDLINE

11 op abnormalities and TNF-alpha over-expression in retinoblastoma
cell

line.

SO: CANCER GENETICS AND CYTOGENETICS, (2001 Jul 15) 128

(2):141-7.

Journal code: 7909240, ISSN: 0165-4608.

135 ANSWER 7 OF 28 MEDLINE

11 A **flow cytometry** technique for measuring
chromosome-mediated gene transfer.

SO: CYTOOMETRY, (2001 Jun 1) 44 (2):100-5.

Journal code: 8102328, ISSN: 0196-4733.

135 ANSWER 8 OF 28 MEDLINE

11 Satellite DNA-based **artificial chromosomes**
-chromosomal vectors.

SO: TRENDS IN BIOTECHNOLOGY, (2000 Oct) 18 (10):402-3.

Journal code: 8310903, ISSN: 0167-7799.

135. ANSWER 9 OF 28 - MEDLINE

II. Generation of transgenic mice and germline transmission of a mammalian
chromosome introduced into embryos by
artificial chromosome introduced into embryos by
pronuclear microinjection.
SO: CHROMOSOME RESEARCH, (2001) 8 (3): 183-91.
Journal code: 931, 452, ISSN: 0967-5849.

135. ANSWER 10 OF 28 - MEDLINE

II. Mammalian **artificial chromosome** pilot production
facilitating large-scale isolation of functional satellite DNA-based
artificial chromosomes.

SO: CYTOMETRY, (1999) 13 (2): 129-32.
Journal code: 8192, 28, ISSN: 0896-4763.

135. ANSWER 11 OF 28 - MEDLINE

II. B cell tumor genes in mice carrying a yeast **artificial chromosome**-based immunoglobulin heavy-chain translocus is
independent of the heavy chain intron enhancer of murine
SO: CANCER RESEARCH, (1999) Nov 15; 59 (21): 5625-8.
Journal code: 2984, 05, ISSN: 0008-5472.

135. ANSWER 12 OF 28 - MEDLINE

II. A human immunoglobulin lambda locus is similarly well expressed
in mice
and humans.
SO: JOURNAL OF EXPERIMENTAL MEDICINE, (1999) May 17;
189 (5): 161-20.
Journal code: 2985, 09R, ISSN: 0022-1707.

135. ANSWER 13 OF 28 - MEDLINE

II. Long-term stability of large yeast genomic DNA episomal shuttle
vectors
in human cells.
SO: NUCLEAR ACIDS RESEARCH, (1999) Apr 1; 27 (7): 1674-82.
Journal code: 041, 011, ISSN: 0305-1048.

135. ANSWER 14 OF 28 - MEDLINE

II. CD164, a novel sialomucin on CD34⁺ and erythroid subsets, is
located on
human chromosome 6q21.
SO: BLOOD, (1998) Aug 1; 92 (3): 849-66.
Journal code: 760, 2509, ISSN: 0006-4971.

135. ANSWER 15 OF 28 - MEDLINE

II. The Beige Chediak-Higashi syndrome gene encodes a widely
expressed
cytosolic protein.
SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1997) Nov 21; 272
(47): 29790-4.
Journal code: 2985, 21F, ISSN: 0021-9258.

135. ANSWER 16 OF 28 - MEDLINE

II. A yeast **artificial chromosome** (YAC) containing
encompassing the critical region of the X-linked lymphoproliferative
disease (XLP) locus.
SO: GENOMICS, (1997) Jan 1; 9 (1): 55-65.
Journal code: 8800, 35, ISSN: 0888-7547.

135. ANSWER 17 OF 28 - MEDLINE

II. Large DNA fragment sizing by **flow cytometry**
application to the characterization of **PI** **artificial
chromosome** (PAC) clones.
SO: NUCLEAR ACIDS RESEARCH, (1996) Nov 1; 24 (21): 4202-9.
Journal code: 041, 1011, ISSN: 0305-1048.

135. ANSWER 18 OF 28 - MEDLINE

II. Characterization of a human chromosome 22 enriched bacterial
artificial chromosome sublibrary.
SO: GENETIC ANALYSIS, (1995) Oct; 12 (2): 73-9.
Journal code: 950, 0940.

135. ANSWER 19 OF 28 - MEDLINE

II. Introduction of YACs containing a patate e mammalian replication

origin

into mammalian cells can generate structures that replicate
autonomously.
SO: SOMATIC CELL AND MOLECULAR GENETICS, (1993) Mar;
19 (2): 171-92.
Journal code: 8403, 568, ISSN: 0740-7750.

135. ANSWER 20 OF 28 - MEDLINE

II. Low-frequency chimeric yeast **artificial chromosome**
libraries from flow-sorted human chromosomes 16 and 21.
SO: PROCEEDINGS OF THE NATIONAL ACADEMY OF
SCIENCES OF THE UNITED STATES OF
AMERICA, (1997) Feb 1; 94 (3): 1063-7.
Journal code: 750, 5876, ISSN: 0027-8424.

135. ANSWER 21 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. Human dendritic cells can be effectively transduced by new
generation
helper virus-free herpes simplex amplicon vectors.
SO: BLOOD, (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 423a.
http://www.bloodjournal.org, print.
Meeting Info: 43rd Annual Meeting of the American Society of
Hematology.,
Pan, Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971.

135. ANSWER 22 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. Response from Brown.
SO: Trends in Biotechnology, (October, 2000) Vol. 18, No. 10, pp. 403.
print
ISSN: 0167-7799.

135. ANSWER 23 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. Molecular analysis of chromosome 6p rearrangement in
retinoblastoma.
SO: Genetics in Medicine, (January February, 2000) Vol. 2, No. 1, pp.
105.
print
Meeting Info: Annual Clinical Genetics Meeting Palm Springs,
California,
USA March 09-12, 2000 American College of Medical Genetics
ISSN: 1098-3600.

135. ANSWER 24 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. Human satellite DNA-based **artificial chromosomes**.
SO: European Journal of Human Genetics, (June, 2000) Vol. 8, No.
Supplement
, pp. 40, print.
Meeting Info: European Human Genetics Conference 2000
Amsterdam,
Netherlands May 27-February 30, 2000 European Society of Human
Genetics
ISSN: 1018-4813.

135. ANSWER 25 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. All that FISH can do for you.
SO: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1294-
1295.
ISSN: 0767-0974.

135. ANSWER 26 OF 28 - BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

II. Chromosomal genetics and molecular genetics: A successful
hybridization.
SO: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1237-
1238.
ISSN: 0767-0974.

135. ANSWER 27 OF 28 - CAPLUS COPYRIGHT 2002 ACS

11. Characterization and sequence study of the immature genome in the marine chordate *Oncoplax diocia*

SO: Science (Washington, DC, United States) (2001) v. 294(5553), 2506
Coden: SCIEAS, ISSN: 0036-8075

135. ANSWER 28 OF 28: CAPTUS. COPYRIGHT 2002 ACS

11. Methods and nucleic acid probe compositions for chromosome-specific staining and their uses, including detection of genetic rearrangement

03: chronic myelogenous leukemia
SO: Can Pat Appl. 159 np
Coden: CPNMB

135. ANSWER 25 OF 28: BIOSIS. COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 199832647 BIOSIS
DOCUMENT NUMBER: PREV/998000,2647
TITLE: All that FISH can do for you.
AUTHOR(S): Grigalrantz, Simone (1); Schreock, Evelyn; Uyanage, Marci; Du Manoir, Stan; Ried, Thomas
CORPORATE SOURCE: (1) 9 rue Basse, 54330 Clermont-Ferrand, France
SOURCE: M-S (Medecine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1294-1298.
ISSN: 0767-0974.

DOCUMENT TYPE: Article
LANGUAGE: French

135. ANSWER 24 OF 28: BIOSIS. COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000269788 BIOSIS
DOCUMENT NUMBER: PREV200000369788
TITLE: Human satellite DNA-based **artificial chromosomes**.

AUTHOR(S): Csonka, Erika (1); Cserpan, I. (1); Lodor, K. (1); Holló, G. (1); Katona, R. (1); Keresz, J. (1); Praznovszky, L. (1); Szakal, B. (1); Telenius, A.; de Jong, G.; Udvárdy, A.; Hadlaček, Gy. (1)

CORPORATE SOURCE: (1) Institute of Genetics, BRC, Szeged, Hungary
SOURCE: European Journal of Human Genetics, (June, 2000) Vol. 8

No. Supplement 1, pp. 40, print.
Meeting Info: European Human Genetics Conference 2000
Amsterdam, Netherlands May 27-February 30, 2000

European Society of Human Genetics
ISSN: 1018-4813

DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English

135. ANSWER 20 OF 28: MEDLINE

ACCESSION NUMBER: 93157343 MEDLINE
DOCUMENT NUMBER: 93157343 PubMed ID: 8410675
TITLE: Low-frequency chimeric yeast **artificial chromosome** libraries from flow-sorted human chromosomes 16 and 21.

AUTHOR: McCormick, M. K.; Campbell, E.; Deaven, L.; Moyzis, R. K.; Viamos, National Laboratory, NM 87544
CORPORATE SOURCE: Life Sciences Division, University of California, MS80 Los
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1993 Feb 1) 90(3): 1063-7

Journal code: 2505876 ISSN: 0027-8424

PUB COUNTRY: United States
DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199303

ENTRY DATE: Entered SIN: 19930326

Last Updated on SIN: 19930326

Entered Medline: 19930305

AB: Construction of chromosome-specific yeast **artificial**

chromosome (YAC) libraries from sorted chromosomes was undertaken

(1) to eliminate drawbacks associated with first-generation total genomic YAC libraries, such as the high frequency of chimeric YAC's, and (2)

(2) provide an alternative method for generating chromosome-specific YAC

libraries in addition to isolating such collections from a total genomic library. Chromosome-specific YAC libraries highly enriched for human

chromosomes 16 and 21 were constructed. By maximizing the percentage of

fragments with two ligatable ends and performing yeast transformations

with less than saturating amounts of DNA in the presence of carrier DNA.

YAC libraries with a low percentage of chimeric clones were obtained. The

smaller number of YAC clones in these chromosome-specific

libraries reduces the effort involved in PCR-based screening and allows hybridization methods to be a manageable screening approach.

135. ANSWER 19 OF 28: MEDLINE

ACCESSION NUMBER: 93289448 MEDLINE

DOCUMENT NUMBER: 93289448 PubMed ID: 8511674

TITLE: Introduction of YACs containing a putative mammalian replication origin into mammalian cells can generate structures that replicate autonomously.

AUTHOR: Nonet, G. H.; Wahl, G. M.

CORPORATE SOURCE: Gene Expression Laboratory, Salk Institute for Biological Studies, La Jolla, California 92037.

CONTRACT NUMBER: GM27754 (NIGMS)

NCI CA48205 (NCI)

SOURCE: SOMATIC CELL AND MOLECULAR GENETICS, (1993 Mar) 19 (2):

171-92.

Journal code: 8403568, ISSN: 0740-7750.

PUB COUNTRY: United States

DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199307

ENTRY DATE: Entered SIN: 19930723

Last Updated on SIN: 19930723

Entered Medline: 19930709

AB: Yeast **artificial chromosomes** (YACs) containing or lacking a biochemically defined DNA replication origin were transferred

from yeast to mammalian cells in order to determine whether origin-dependent autonomous replication would occur. A specialized YAC

vector was designed to enable selection for YACs in mammalian cells and for monitoring YAC abundance in individual mammalian cells. All of

eight clones made with linear and circularized YACs lacking the origin and seven

of nine clones made with linear and circularized YACs containing the origin region contained single copies of the transfected YAC, along with various amounts of yeast DNA integrated into single but different

chromosomal sites. By contrast, two transformants derived from circularized YACs containing the putative replication origin showed very heterogeneous YAC copy number and numerous integration sites when analyzed after many generations of in vitro propagation. Analysis of both clones at an early time after fusion revealed variously sized extrachromosomal YAC yeast structures reminiscent of the extrachromosomal elements found in some cells harboring amplified genes. The data are consistent with the interpretation that YACs containing a biochemically defined origin of replication can initially replicate autonomously, followed by integration into multiple chromosomal locations, as has been reported to occur in many examples of gene amplification in mammalian cells.

135. ANSWER 10 OF 28 MEDLINE
 ACCESSION NUMBER: 2000019472 MEDLINE
 DOCUMENT NUMBER: 20019472 PubMed ID: 10554044
 TITLE: B-cell tumorigenesis in mice carrying a yeast artificial chromosome-based immunoglobulin heavy c-myc translocus is independent of the heavy chain intron enhancer (I mu).
 AUTHOR: Palomo C, Zou X, Nicholson LC, Butler C, Bruggemann M
 CORPORATE SOURCE: Laboratory of Developmental Immunology, The Babraham Institute, Cambridge, United Kingdom.
 SOURCE: CANCER RESEARCH (1999 Nov 1) 59 (21) 5625-8.
 Journal code: 2984705R ISSN: 0008-5472.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199912
 ENTRY DATE: Entered SIN: 20000113
 Last Updated on SIN: 20000113
 Entered Medline: 19991202

AB We have used YAC (yeast **artificial chromosome**) technology to create large translocation regions where the c-myc proto-oncogene is coupled to the core region of the human immunoglobulin heavy chain (IgH) locus (from VH2-5 through to Cdelta). Chimeric mice were obtained from embryonic stem cells carrying a single copy of the 240-kb IgH c-myc translocation region. B-cell tumorigenesis occurs in the translocus mice, even when the entire I mu intron enhancer region between the joining segments and switch mu is deleted. This demonstrates that as yet unidentified regulatory elements in the IgH locus, independent from the known enhancers, are sufficient to cause B-cell specific activation of c-myc after translocation. The phenotype of tumors from IgH c-myc YAC transgenic mice with or without I mu (B220⁺, IgM⁺, IgD⁺) is reminiscent of Burkitt's lymphoma. A rapidly expanding abnormal B-cell population is present at birth and accumulates in bone marrow, periphery, and spleen, well before discrete tumor establishment. Molecular analysis identified a clonal origin, with rearrangement of one mouse heavy chain allele retained in tumor cells from different sites, whereas subsequent rearrangements of

heavy or light chain loci can be diverse. These mice routinely develop mature B-cell tumors early in life and may provide an invaluable resource of a B-cell lymphoma model.

135. ANSWER 10 OF 28 MEDLINE
 ACCESSION NUMBER: 2000019596 MEDLINE
 DOCUMENT NUMBER: 20019596 PubMed ID: 10554168
 TITLE: Mammalian **artificial chromosome** pilot production facility: large scale isolation of functional satellite DNA-based **artificial chromosomes**.
 AUTHOR: delong G, Telenius A H, Telenius H, Perez C E, Drayer J L, Hadlaczky G
 CORPORATE SOURCE: Chromos Molecular Systems, Inc., Vancouver, British Columbia, Canada. gdelong@chromos.com
 SOURCE: CYTOMETRY (1999 Feb 1) 35 (2) 129-33
 Journal code: 8102328 ISSN: 0196-4763.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199911
 ENTRY DATE: Entered SIN: 20000113
 Last Updated on SIN: 20000113
 Entered Medline: 19991130
 AB BACKGROUND: A pilot production facility has been established to isolate mammalian **artificial chromosomes** at high purity by using **flow cytometric** techniques. Dicentric chromosomes have been generated by the targeted amplification of pericentric heterochromatic and centromeric DNA by activating the "megareplicator." Breakage of these dicentric chromosomes generates satellite DNA-based **artificial chromosomes** (SATAC) from 60 to 400 megabases. METHODS: For large-scale production, we have developed cell lines capable of carrying one or two SATACs. A SATAC, because of a high adenine-thymine (AT) composition, is easily identified and sorted by using chromomycin A3 and Hoechst 33258 stains and a dual-laser high-speed flow cytometer. A prototype SATAC (60 megabases) has been characterized. The prototype SATAC has been isolated from an original rodent-human hybrid cell line and transferred by using modified microcell fusion into a CHO production cell line. RESULTS: Metaphase chromosomes from this production cell line were isolated in a modified polyamine buffer, stained, and sorted by using a modified sheath buffer that maintains condensed chromosomes. SATACs are routinely sorted at rates greater than 1 million per hour. Sorted SATACs have been transferred to a variety of cells by using microcell fusion technology and were found to be functional. CONCLUSIONS: By developing new SATAC-containing cell lines with fewer numbers of chromosomes in conjunction with operating a high-speed flow sorter we have effectively generated an efficient production facility geared purely for the isolation of SATACs.

135. ANSWER 7 OF 28 MEDLINE
 ACCESSION NUMBER: 2001297137 MEDLINE
 DOCUMENT NUMBER: 21272265 PubMed ID: 11378859
 TITLE: A **flow cytometry** technique for

measuring chromosome-mediated gene transfer

AUTHOR Vanderbyl S, MacDonald N, de Jong G

CORPORATE SOURCE Chromos Molecular Systems, Inc., Burnaby, British Columbia, Canada

SOURCE CYTOMETRY, (2001) Jun 1;44(2):100-5
Journal code: 8102328 ISSN: 0196-4763

PUB COUNTRY United States

DOCUMENT TYPE Journal Article (JOURNAL ARTICLE)

LANGUAGE English

FILE SEGMENT Priority Journals

ENTRY MONTH 200109

ENTRY DATE Entered SIN: 20011001
Last Updated on SIN: 20011001
Entered Medline: 20010927

ABSTRACT Using **artificial chromosome** expression systems (ACes), we have developed a unique and rapid screening technique to quantify delivery of foreign DNA into cells *in vitro*. Delivery was measured within 24 h after transfection, using **flow cytometry** to detect the transfer of ACes labeled with thymidine analogue. This technique can be used to optimize delivery parameters of ACes and heterologous DNA into cells and eventually tissue.

METHOD Chinese hamster ovary (CHO) cells carrying **artificial chromosomes** were grown in media supplemented with thiododeoxyuridine (TdUrd). The 60-nb **artificial chromosome** was purified by **flow cytometry** sorting and transfected into Chinese hamster lung fibroblast cells (V79-4) or mouse connective tissue cells [Mtk-] using LipofectAMINE 2000 (trade mark, a cationic lipid, and Superfect, trade mark, a cationic dendrimer). The cells were incubated with an FITC-conjugated anti-bromodeoxyuridine (BrdUrd) antibody and analyzed by **flow cytometry**. IdUrd-incorporated **artificial chromosome** expressing green fluorescent protein (GFP) was transfected into V79-4 cells. Delivery was measured at 24 h and GFP expression was detected at 48 h. RESULTS: The delivery of intact **artificial chromosomes** into V79-4 and Mtk- cells was detected within 2 h and up to 48 h post-transfection. Maximum delivery rates of 20% and 14% were observed using LipofectAMINE 2000 and Superfect, respectively. **Flow cytometry** data correlated with microscopic observations. IdUrd incorporation resulted in less quenching after staining with Hoechst 33258 and chromomycin A3 than BrdUrd incorporation. The fluorescence intensity of the FITC-conjugated anti-BrdUrd antibody was greater with IdUrd-incorporated chromosomes than with BrdUrd-incorporated chromosomes. CONCLUSION: The results indicate that IdUrd-labeled **artificial chromosomes** can be detected 24 h after transfection. This efficient, sensitive, high throughput detection technique is being used to evaluate and optimize other transfer technologies (e.g., electroporation and sonoporation), different delivery reagents, and protocols in a variety of cells *in vitro*. This work represents the first step in utilizing **artificial chromosomes** as nonviral vectors for gene therapy.

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• D HIS

FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROTELE MEDIVAX CHROMOSOME TRANSFER

12 11852 S ELECTROPORATION

13 2811 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT

16 26 S TRANSFECT AND ELECTRIC

17 2095 S TRANSFECT AND PULSE

18 582069 S CHROMOSOME

19 41 S 17 AND 18

20 23 DUP REM 19-18 DUPLICATES REMOVED

21 13745 S 12 OR 15 OR 17

22 2811 AND 11

23 0 S 112 AND 13

24 775 S 18 AND 111

25 831822 S MICROLE OR LIPID OR LIPOSOME

26 13 S 14 AND 115

27 9 DUP REM 16 (4 DUPLICATES REMOVED)

28 825 S 118 AND 15

29 11928 S 12 OR 15

30 477 S 115 AND 19

31 280 DUP REM 120 (17 DUPLICATES REMOVED)

32 2737 S LARGE DNA

33 0 S 121 AND 122

34 184 S 121 AND PY-1999

35 23471 S ACES OR CELL SORT

36 2 S 11 AND 125

37 2 DUP REM 126 (0 DUPLICATES REMOVED)

38 1447377 S YAC2 OR MAC2

39 9621 S ARTIFICIAL CHROMOSOME

40 17 S 125 AND 129

41 12 DUP REM 130 (5 DUPLICATES REMOVED)

42 131727 S FLOW CYTOMTR

43 46 S 129 AND 132

44 29 DUP REM 133 (17 DUPLICATES REMOVED)

45 28 S 134 NOT 131

LOG HOLD	COST IN U.S. DOLLARS	SINCE FILE	TOTAL
ENTRY	SESSION		
FULL ESTIMATED COST		315.69	315.90

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SINCE FILE	TOTAL

ENTRY	SESSION
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PASSWORD:
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FILE 'MEDLINE' ENTERED AT 16:18:07 ON 02 OCT 2002
FILE 'BIOSIS' ENTERED AT 16:18:07 ON 02 OCT 2002
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ENTRY	SESSION		
FULL ESTIMATED COST		315.69	315.90

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		8.67	8.67

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FILE MEDLINE BIOSIS CAPUS	SINCE FILE	10FM
COST IN U.S. DOLLARS	ENTRY	SESSION
1411 ESTIMATED COST	315.99	315.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	10FM	ENTRY	SESSION
		8.67	8.67

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FILE 'MEDLINE BIOSIS CAPUS' ENTERED AT 15:05:47 ON
02 OCT 200211 482 S MICROCELL MEDIATED CHROMOSOME
TRANSFER

12 1482 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT AND PULSE

18 552069 S CHROMOSOME

19 41 S 17 AND 18

20 23 DUP REM 19 (18 DUPLICATES REMOVED)

21 13745 S 12 OR 15 OR 17

22 2 S 11 AND 11

23 0 S 112 NOT 13

24 775 S 18 AND 11

25 831822 S MICELLE OR LIPID OR LIPOSOME

26 13 S 14 AND 115

27 9 DUP REM 116 (4 DUPLICATES REMOVED)

28 825 S 117 S 15

29 11928 S 12 OR 15

30 477 S 115 S 19

31 280 DUP REM 120 (19 DUPLICATES REMOVED)

32 2777 S LARGE DNA

33 0 S 121 AND 122

34 184 S 12 NOT PY-1999

35 23471 S ACS OR CEE SOR?

36 2 S 11 AND 125

37 2 DUP REM 126 (0 DUPLICATES REMOVED)

38 1447377 S YAC2 OR MAC2

39 9621 S ARTIFICIAL CHROMOSOME

40 17 S 125 AND 129

41 12 DUP REM 130 (5 DUPLICATES REMOVED)

42 131727 S 110 W CYTOMETER?

43 46 S 129 AND 132

44 29 DUP REM 133 (17 DUPLICATES REMOVED)

45 28 S 134 NOT 171

FILE 'MEDLINE BIOSIS CAPUS' ENTERED AT 16:18:15 ON
02 OCT 2002

-S CHROMOSOME PAINT

136 -372 CHROMOSOME PAINT

-S FISH AND CHROMOSOME

137 -21919 FISH AND CHROMOSOME

-S FLUORESC?

138 -81011 FLUORESC?

-S 137 AND 138

139 -1638 137 AND 138

-S 136 OR 139

140 -16551 136 OR 139

-S 132 OR 125

141 -149247 132 OR 125

-S 140 AND 141

142 -580 140 AND 141

-D 142 140

142 ANSWER 1 OF 580 - MEDLINE

AN 2002442803 - MEDLINE

DN 22188894 PubMed ID: 12200682

TI Infant acute lymphoblastic leukemia - combined cytogenetic, immunophenotypic and molecular analysis of 77 cases.

AU Borkhardt A; Wuchter C; Viehmann S; Pils S; Feigler-Schlegel A; Stanulla M

M; Zimmermann M; Ludwig W-D; Janka-Schäub G; Schrappe M; Harbott J

CS Children's University Hospital, Department of Hematology and Oncology, Gessen, Germany

SO LEUKEMIA, (2002 Sep) 16 (9) 1685-90.

Journal code 8704895 ISSN: 0887-6924

CY England; United Kingdom

DI -CLINICAL TRIAL

Journal: Article; JOURNAL ARTICLE
(MULTICENTER STUDY)

LA English

ES Priority Journals

EM 200209

ED Entered STN: 20020830

Last Updated on STN: 20020927

Entered Medline: 20020926

142 ANSWER 2 OF 580 - MEDLINE

AN 2002430654 - IN-PROCESS

DN 22175179 PubMed ID: 12187044

TI Chromosomal aberrations in transitional cell carcinoma: its correlation with tumor behavior

AU Yu D-S; Chen H-I; Chang S-Y

CS Uro-Oncology Laboratory, Division of Urology, Department of Surgery, In-Service General Hospital, National Defense Medical Center, National Defense College, Taipei, Taiwan ROC

SO UROLOGIA INTERNATIONALIS, (2002) 69 (2) 129-35.

Journal code 0417373 ISSN: 0042-1138

CY Switzerland

DI Journal; Article; JOURNAL ARTICLE

LA English

ES IN-PROCESS; NONINDEXED; Priority Journals

ED Entered STN: 20020821

Last Updated on STN: 20020821

142 ANSWER 3 OF 580 - MEDLINE

AN 2002378813 - IN-PROCESS

DN 22120540 PubMed ID: 12124698

TI Fetal gender and aneuploidy detection using fetal cells in maternal blood: analysis of NIFTY-1 data

AU: Branch D W; Simpson J L; Jackson T G; Elias S; Holzgreve W; Evans M L; Duke E A; Sullivan E M; Klinger K W; Bischoff E Z; Hahn S; Johnson K L; Levy D; Wagner K J; Cruz Ed J de la
 CY: English
 CS: Division of Genetics, Departments of Pediatrics, Obstetrics and Gynecology, Tufts University School of Medicine, Boston, MA, USA
 SO: PRENATAL DIAGNOSIS, (2002 Jul) 22 (7) 609-13
 Journal code: 8506520 ISSN: 0197-2881
 CY: England; United Kingdom
 DI: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 ED: Entered SIN: 20020719
 Last Updated on SIN: 20020719
 Entered Medline: 20020719

142 ANSWER 4 OF 580 - MEDLINE
 AN: 2002366465 - MEDLINE
 DN: 22105847 - PubMed ID: 12110498
 TI: Lack of interstitial **chromosome** 1p deletions in clinically-detected neuroblastoma
 AU: Godfrain M B; Veenstra M; Voser J A; Sluis P V; Voute P A; Versteeg R;
 Catton H N
 CS: Department of Human Genetics, Academic Medical Center, University of Amsterdam, PO Box 22700, 1100 DD, Amsterdam, The Netherlands
 SO: EUROPEAN JOURNAL OF CANCER, (2002 Jul) 38 (11) 1513-9
 Journal code: 0005273 ISSN: 0959-8049
 CY: England; United Kingdom
 DI: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200209
 ED: Entered SIN: 20020712
 Last Updated on SIN: 20020914
 Entered Medline: 20020913

142 ANSWER 5 OF 580 - MEDLINE
 AN: 2002269316 - MEDLINE
 DN: 21940237 - PubMed ID: 1214340
 TI: Cytogenetic characterization of complex karyotypes in seven established melanoma cell lines by multiple **fluorescence** *in situ* hybridization and DAPI banding.
 AU: Serulans Hans Jürgen; Granawan Bastian; Otto Friedrich; Hassmann René;
 Hellermann Christian; Nothel Albrecht; Fazekas László
 CS: Department of Pathology, Georg August University, Göttingen, Germany
 SO: CANCER GENETICS AND CYTOGENETICS, (2002 Mar) 133 (2) 134-41.
 Journal code: 7009240 ISSN: 0165-4608.
 CY: United States
 DI: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200205
 ED: Entered SIN: 20020412
 Last Updated on SIN: 20020503
 Entered Medline: 20020502

142 ANSWER 6 OF 580 - MEDLINE
 AN: 2002199521 - MEDLINE
 DN: 21929627 - PubMed ID: 11933265
 TI: Quantitative **FISH** analysis on interphase nuclei may improve diagnosis of DNA diploid breast cancers
 AU: Truong Khuong, Vieth Philippe; Guilly Marie; Zoéle, Klyamenko Jerzy;
 Sastre-Garau Xavier; Soussaline Françoise; Dutrillaux Bernard;
 Mallo Bernard
 CS: Cytogenétique moléculaire et Oncologie, Unité Mixte de Recherche

142 ANSWER 7 OF 580 - MEDLINE
 AN: 200259582 - MEDLINE
 DN: 21888357 - PubMed ID: 12890998
 TI: Interphase **fluorescence** *in situ* hybridization and DNA **flow cytometry** analysis of medulloblastomas with a normal karyotype.
 AU: Rajcan-Separovic Evica; Hendson Glenda; Tang Steven; Seto Emily; Thomson Toni; Phillips Don; Kalousek Dagmar
 CS: Department of Pathology, British Columbia's Children's Hospital, 4480 Oak Street, V6H 3V4, BC, Vancouver, Canada; e separovic@cw.bc.ca
 SO: CANCER GENETICS AND CYTOGENETICS, (2002 Feb) 133 (1) 94-7.
 Journal code: 7009240 ISSN: 0165-4608.
 CY: United States
 DI: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200203
 ED: Entered SIN: 20020314
 Last Updated on SIN: 20020403
 Entered Medline: 20020327

142 ANSWER 8 OF 580 - MEDLINE
 AN: 2002120528 - MEDLINE
 DN: 21671061 - PubMed ID: 11813198
 TI: Telomere length measurement by **fluorescence** *in situ* hybridization and **flow cytometry**: tips and pitfalls.
 AU: Bacalocher Gabriela M; Mak Jennifer; Tien Teri; Lansdorp Peter M
 CS: Terry Fox Laboratory, British Columbia Cancer Agency, Vancouver, British Columbia, Canada
 NC: A129524 (NIH)
 SO: CYTOOMETRY, (2002 Feb 1) 47 (2) 89-99.
 Journal code: 8102328 ISSN: 0196-4763.
 CY: United States
 DI: Journal; Article; (JOURNAL ARTICLE)
 LA: English
 FS: Priority Journals
 EM: 200204
 ED: Entered SIN: 20020222
 Last Updated on SIN: 20020406
 Entered Medline: 20020405

142 ANSWER 9 OF 580 - MEDLINE
 AN: 2002036247 - MEDLINE
 DN: 21598123 - PubMed ID: 11763759
 TI: Evaluation of three somatic genetic biomarkers as indicators of low dose radiation effects in clean-up workers of the Chernobyl nuclear reactor accident
 AU: Jones E M; Tucker J D; Langlois R G; Mendelsohn M I; Pleshakov P; Nelson D
 O
 CS: Biology and Biotechnology Research Program, L-441 Lawrence Livermore National Laboratory, Livermore, California, USA; jones20@lbl.gov

NC 1001 CAS9471 NCD

SO Radia Prot Dosimetry, (2001) 97 (1) 61-7
Journal code: 810995 ISSN: 0144-8420

CY England; United Kingdom

DE (EVALUATION STUDIES)

Journal; Article; JOURNAL ARTICLE

EA English

ES Priority Journals

EM 200204

ED Entered STN: 2002-04-24
Last Updated on STN: 20020424
Entered Medline: 2002-04-23

142 ANSWER 2 OF 3 - MEDLINE

AN 2002035938 MEDLINE

DN 21604146 Pubmed ID: 11763711

11 Use of novel t(11;14) and t(14;18) dual fusion fluorescence in situ hybridization probes in the differential diagnosis of lymphomas of small lymphocytes.

AU Frater J E; Istritatis E K; Hsi F D; Pettay J; Lubbs R R
CS Department of Clinical Pathology, Cleveland Clinic Foundation, Ohio 44195, USA

SO DIAGNOSTIC MOLECULAR PATHOLOGY, (2001 Dec) 10 (4) 214-22.
Journal code: 9204724 ISSN: 1052-9551.

CY United States

DE (EVALUATION STUDIES)

Journal; Article; JOURNAL ARTICLE

EA English

ES Priority Journals

EM 200205

ED Entered STN: 200205-24
Last Updated on STN: 20020506
Entered Medline: 20020502

143 D HHS

(HELMEDLINE; BIOSIS; CAPLUS ENTERED AT 15:05:39 ON 02 OCT 2002)

144 ANSWER 1 OF 3 - MEDLINE

11 Molecular cloning and immunogenicity of renal cell carcinoma-associated antigen G250.

SO INTERNATIONAL JOURNAL OF CANCER, (2000 Mar 15) 85 (6) 865-70
Journal code: 0042124 ISSN: 0020-7136.

145 ANSWER 2 OF 3 - MEDLINE

11 Generation of transgenic mice and germline transmission of a mammalian artificial **chromosome** introduced into embryos by pronuclear microinjection.

SO CHROMOSOME RESEARCH, (2000) 8 (3) 183-91.
Journal code: 9213452 ISSN: 0967-3849.

146 ANSWER 3 OF 3 - MEDLINE

11 Dendrite cells generated from blood precursors of chronic myelogenous leukemia patients carry the Philadelphia translocation and can induce a CML-specific primary cytotoxic T-cell response.

SO GENES, CHROMOSOMES AND CANCER, (1997 Nov) 20 (3) 215-23.
Journal code: 9007129 ISSN: 1045-2257.

147 D HHS

(HELMEDLINE; BIOSIS; CAPLUS ENTERED AT 15:05:39 ON 02 OCT 2002)

148 ANSWER 1 OF 3 - MEDLINE

11 482 S MICROCELL-MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT? AND PULSE?

18 552069 S CHROMOSOME

19 41 S 17 AND 18

149 23 DUP REM 19 (18 DUPLICATES REMOVED)

150 13745 S 12 OR 15 OR 17

151 2 S 11 AND 13

152 0 S 12 AND 13

153 775 S 18 AND 11

154 831822 S MICELLE OR LIPID OR LIPOSOME

155 13 S 14 AND 15

156 9 DUP REM 16 (4 DUPLICATES REMOVED)

157 825 S 11 (S) 15

158 11928 S 12 OR 15

159 477 S 15 (S) 19

160 280 DUP REM 120 (397 DUPLICATES REMOVED)

161 2737 S LARGE DNA

162 0 S 121 AND 122

163 184 S 12 (NOT PY) (1999)

164 2347 S ACAC OR CEE SORT?

165 2 S 11 AND 12?

166 2 DUP REM 126 (0 DUPLICATES REMOVED)

167 1447377 S MAC (OR MAC)

168 9621 S ARTIFICIAL CHROMOSOME

150 17 S 12 AND 129

151 12 DUP REM 17 (0 DUPLICATES REMOVED)

152 13127 S FLOW CYTOMETER?

153 46 S 129 AND 132

154 29 DUP REM 13 (17 DUPLICATES REMOVED)

155 28 S 134 NOT 131

156 (HELMEDLINE; BIOSIS; CAPLUS ENTERED AT 16:18:15 ON 02 OCT 2002)

157 312 S CHROMOSOME PAINT

158 21919 S FLUOR AND CHROMOSOME

159 811011 S FLUORESC?

160 16787 S 17 AND 138

161 16551 S 16 OR 139

162 49247 S 112 OR 125

163 580 S 140 AND 141

164 (S) TRANSFER OR TRANSFECT?

165 1196774 TRANSFER OR TRANSFECT?

166 3 S 122 AND 143

167 3142 AND 143

168 (DUP REM 144)

169 PROCESSING COMPLETED FOR 144

170 3 DUP REM 144 (0 DUPLICATES REMOVED)

171 (D) 11 S 1-3

172 ANSWER 1 OF 3 - MEDLINE

11 Molecular cloning and immunogenicity of renal cell carcinoma-associated antigen G250.

SO INTERNATIONAL JOURNAL OF CANCER, (2000 Mar 15) 85 (6) 865-70
Journal code: 0042124 ISSN: 0020-7136.

173 ANSWER 2 OF 3 - MEDLINE

11 Generation of transgenic mice and germline transmission of a mammalian artificial **chromosome** introduced into embryos by pronuclear microinjection.

SO CHROMOSOME RESEARCH, (2000) 8 (3) 183-91.
Journal code: 9213452 ISSN: 0967-3849.

174 ANSWER 3 OF 3 - MEDLINE

11 Dendrite cells generated from blood precursors of chronic myelogenous leukemia patients carry the Philadelphia translocation and can induce a CML-specific primary cytotoxic T-cell response.

SO GENES, CHROMOSOMES AND CANCER, (1997 Nov) 20 (3) 215-23.
Journal code: 9007129 ISSN: 1045-2257.

175 D HHS

(HELMEDLINE; BIOSIS; CAPLUS ENTERED AT 15:05:39 ON 02 OCT 2002)

176 ANSWER 1 OF 3 - MEDLINE

11 482 S MICROCELL-MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORATE?

13 2 S 11 AND 12

14 2 DUP REM 13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT? AND PULSE?

18 552069 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (18 DUPLICATES REMOVED)

111 13745 S 12 OR 15 OR 17

112 28111 AND 111
113 68112 NOT 111
114 775818 AND 111
115 8338228 MICELLE OR LIPOID OR LIPOSOME
116 118114 AND 115
117 9 DUP REM 116 (4 DUPLICATES REMOVED)
118 82581168115
119 11928812 OPT 2
120 477811818119
121 280 DUP REM 120 (197 DUPLICATES REMOVED)
122 2737811 ARG11 DNA
123 68121 AND 122
124 1848121 NOT PY 1999
125 2347811 ACOS OR CELL SORC?
126 28111 AND 125
127 2 DUP REM 126 (0 DUPLICATES REMOVED)
128 1447778 SYAC2 OR MAC2
129 9621811 ARTIFICIAL CHROMOSOME
130 178125 AND 129
131 12 DUP REM 130 (5 DUPLICATES REMOVED)
132 1317278119 CYTOMI 1R?
133 468129 AND 132
134 29 DUP REM 133 (17 DUPLICATES REMOVED)
135 288134 NOT 131

THE MEDLINE, BIOSIS, CAPLUS ENTERED AT 16:18:15 ON

02 OCT 2002
136 3728 CHROMOSOME PAINT
137 21919811 ISLAND CHROMOSOME
138 8110118111 ORESC?
139 163878127 AND 138
140 165518126 OR 139
141 1492478132 OPT 125
142 5808140 AND 141
143 119677481 TRANSFER OR TRANSFECT?
144 38142 AND 143
145 3 DUP REM 144 (0 DUPLICATES REMOVED)

-- LOG HOLD
COST IN U.S. DOLLARS SINCE THEE TOTAL
ENTRY SESSION
FEE ESTIMATED COST 18.62 334.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY SESSION
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OCT 2002